





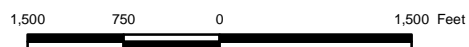
**Legend**

-  Paleo Channel (BRC Interpretation)
-  Paleo Channel (Tronox Interpretation)
-  Groundwater Treatment System (GWTS)
-  Downgradient Study Area
-  Las Vegas Wash

**Paleochannel Source:**

- \* Basic Remediation Company, 2005. Site Closure Report, Henderson, Nevada.
- \* ENSR International, 2005. Site Conceptual Model, Kerr\_McGee Facility Henderson, Nevada.

**Paleochannel Alignments  
Downgradient Study Area Investigation  
July 2006  
Henderson, Nevada**



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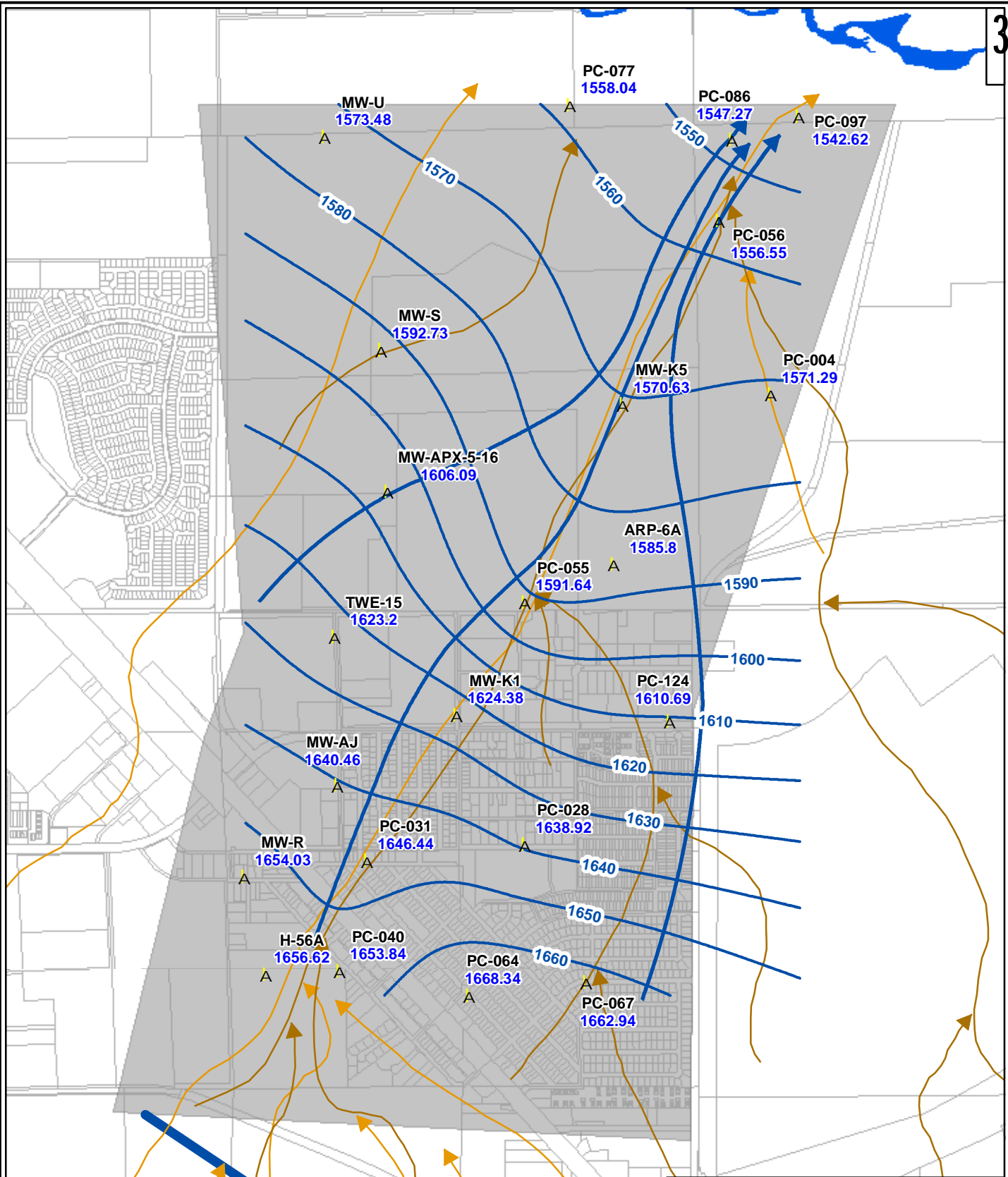
07-Mar-2007

Figure

**2-1**



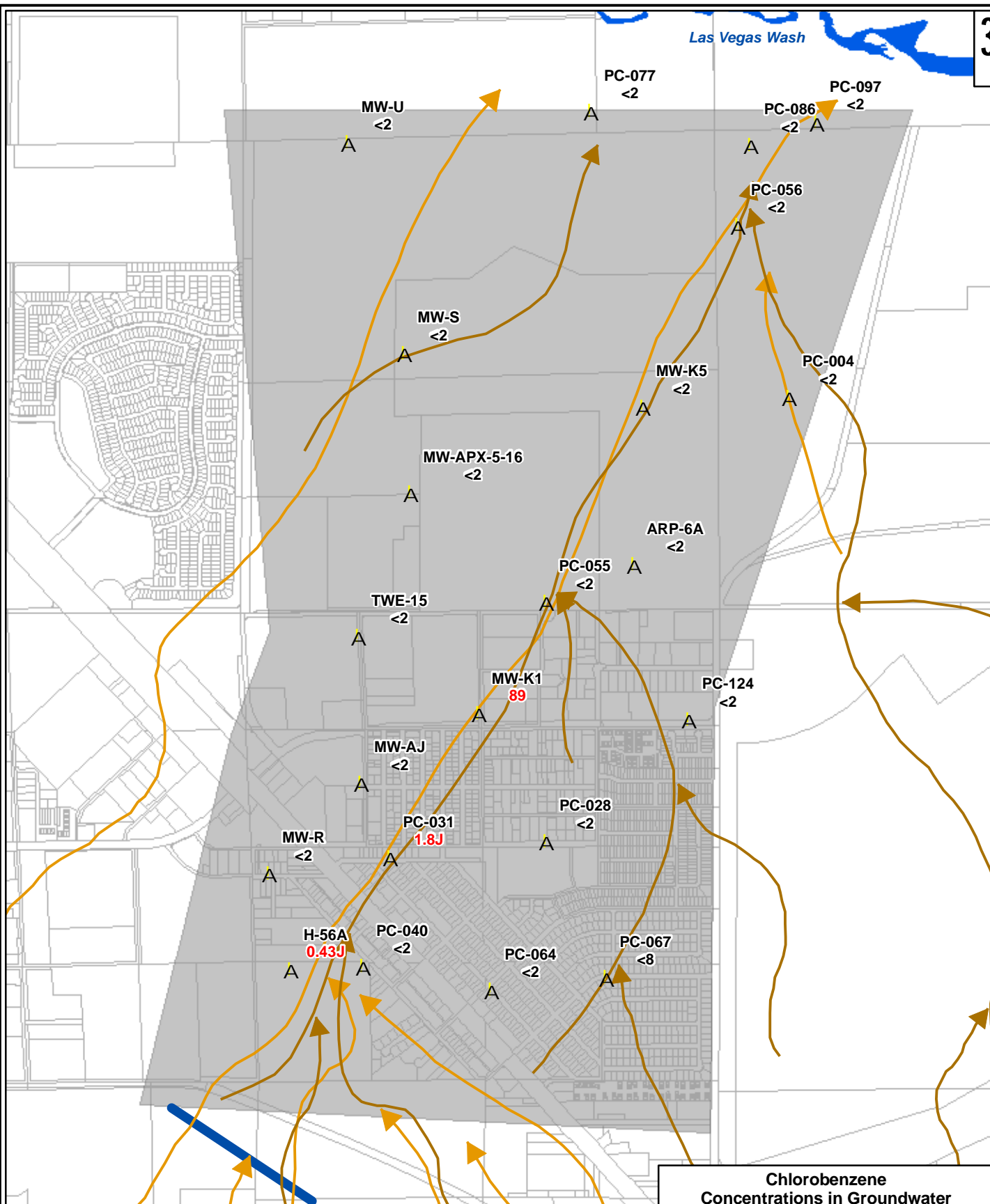




<b>Groundwater Equipotential Map</b> <b>Downgradient Study Area Investigation</b> <b>July 2006</b> Henderson, Nevada		
1,500      750      0      1,500 Feet 		
<b>Legend</b> A Downgradient Study Area Monitor Well — Groundwater Equipotential Line General Direction of Groundwater Flow Paleo Channel (BRC Interpretation) Paleo Channel (Tronox Interpretation) Groundwater Treatment System (GWTS) ■ Downgradient Study Area Las Vegas Wash	<b>Geosyntec</b> consultants Huntington Beach, CA	HW0934B Revision: 01 07-Mar-2007
	Figure <b>4-1</b>	



Las Vegas Wash

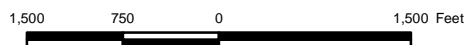


**Legend**

- 89  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange arrow Paleochannel (BRC Interpretation)
- Yellow arrow Paleochannel (Tronox Interpretation)
- Blue line Groundwater Treatment System (GWTs)
- Grey area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Chlorobenzene  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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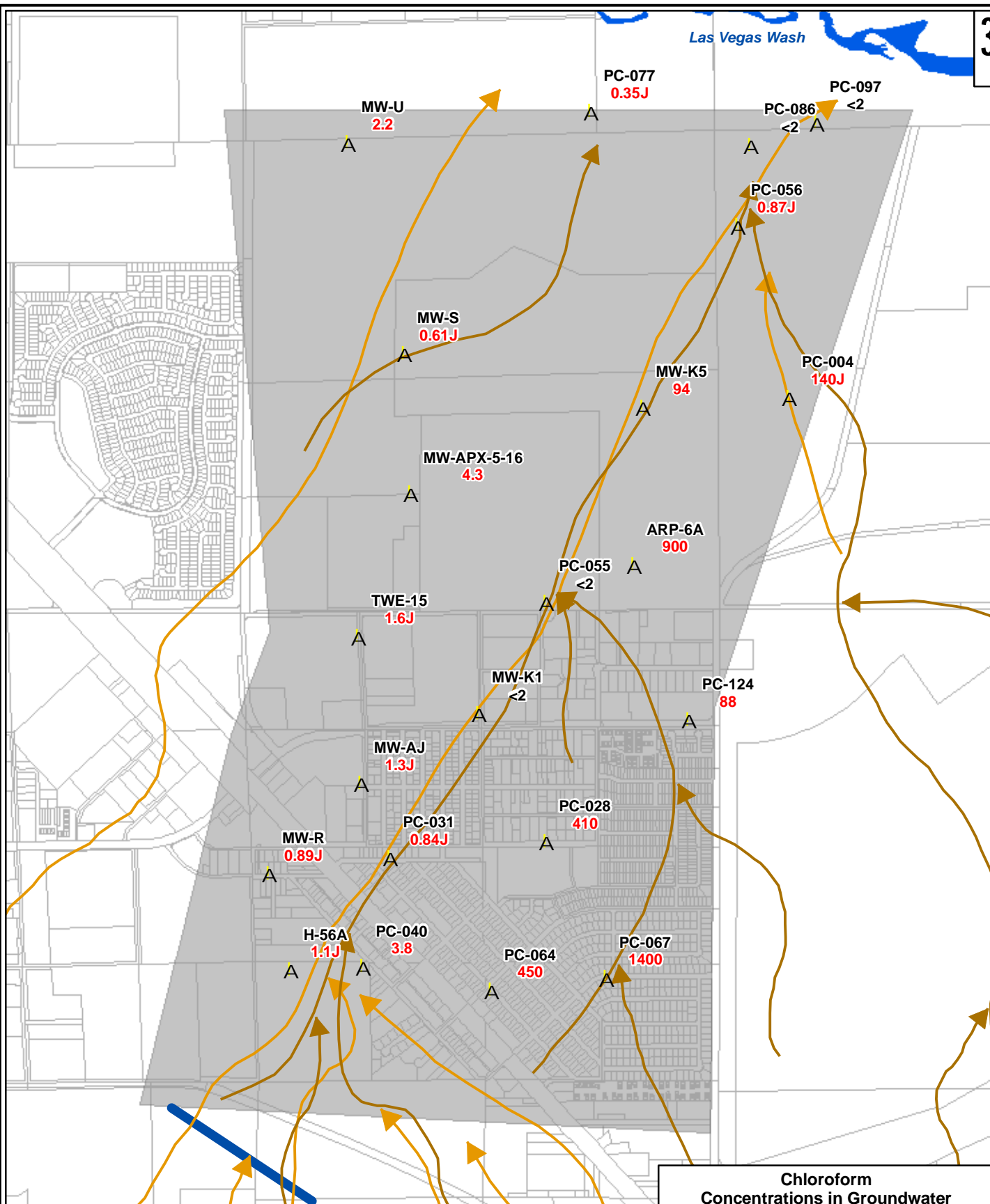
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Figure  
**4-3**



Las Vegas Wash

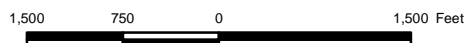


**Legend**

- 3.8  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Chloroform  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

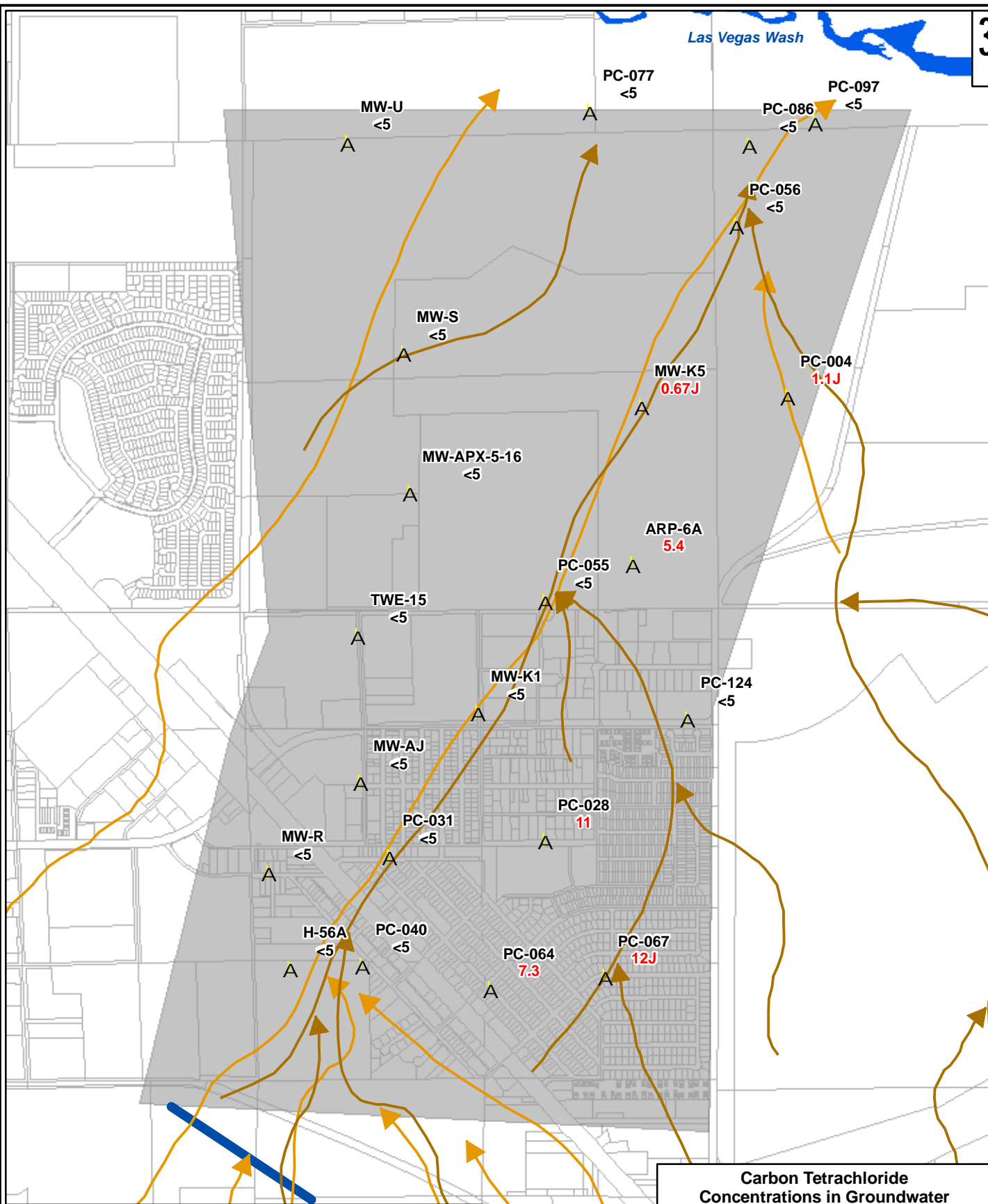


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Figure  
**4-4**

Las Vegas Wash

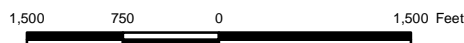


**Legend**

- 7.3  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange arrow Paleochannel (BRC Interpretation)
- Yellow arrow Paleochannel (Tronox Interpretation)
- Blue line Groundwater Treatment System (GWTs)
- Grey shaded area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

**Carbon Tetrachloride  
Concentrations in Groundwater  
Downgradient Study Area Investigation  
July 2006**  
Henderson, Nevada

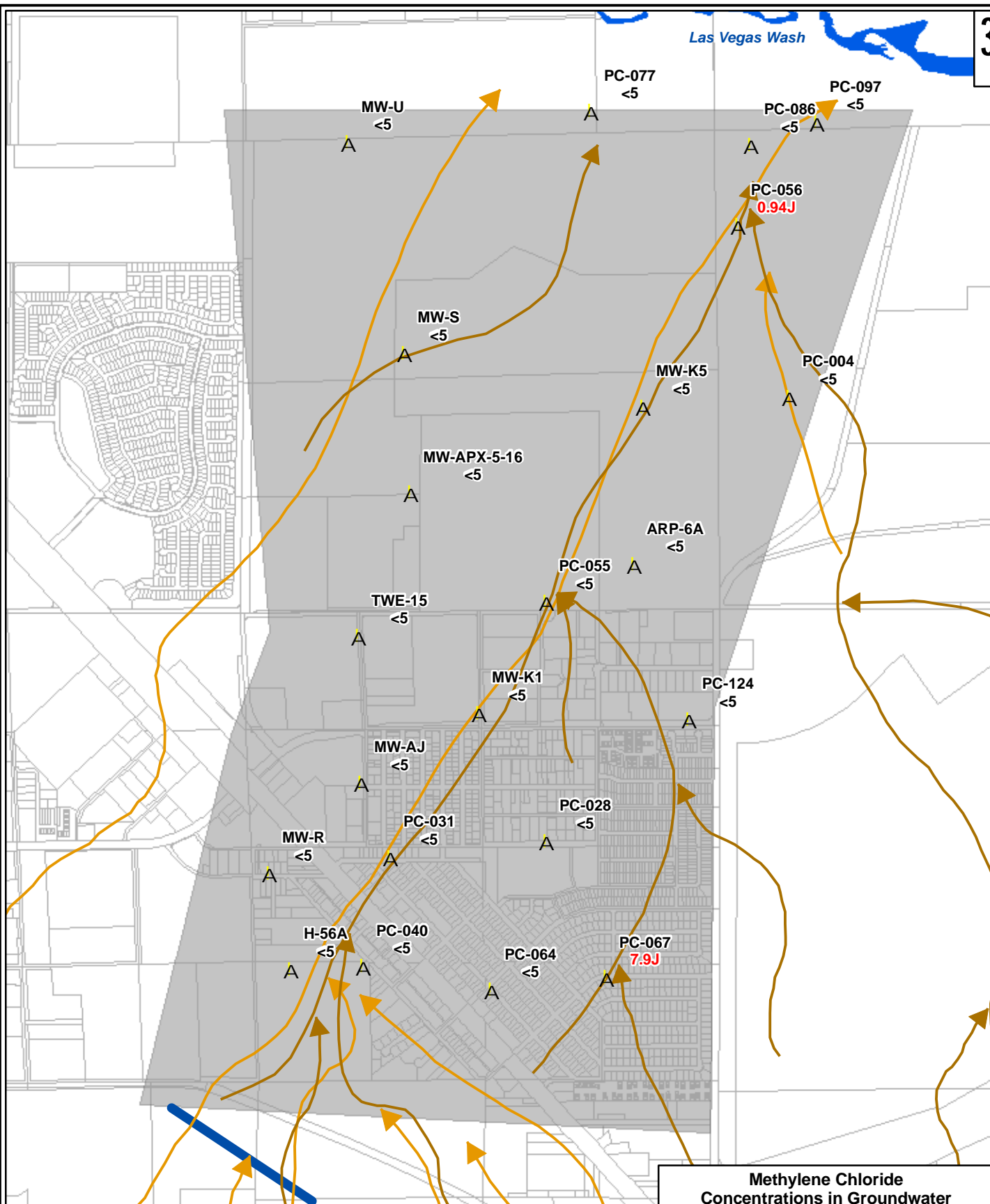


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Figure  
**4-5**

Las Vegas Wash

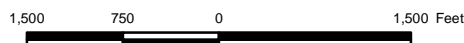


**Legend**

- 7.9J  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange arrow Paleochannel (BRC Interpretation)
- Yellow arrow Paleochannel (Tronox Interpretation)
- Blue line Groundwater Treatment System (GWTS)
- Grey area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Methylene Chloride  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



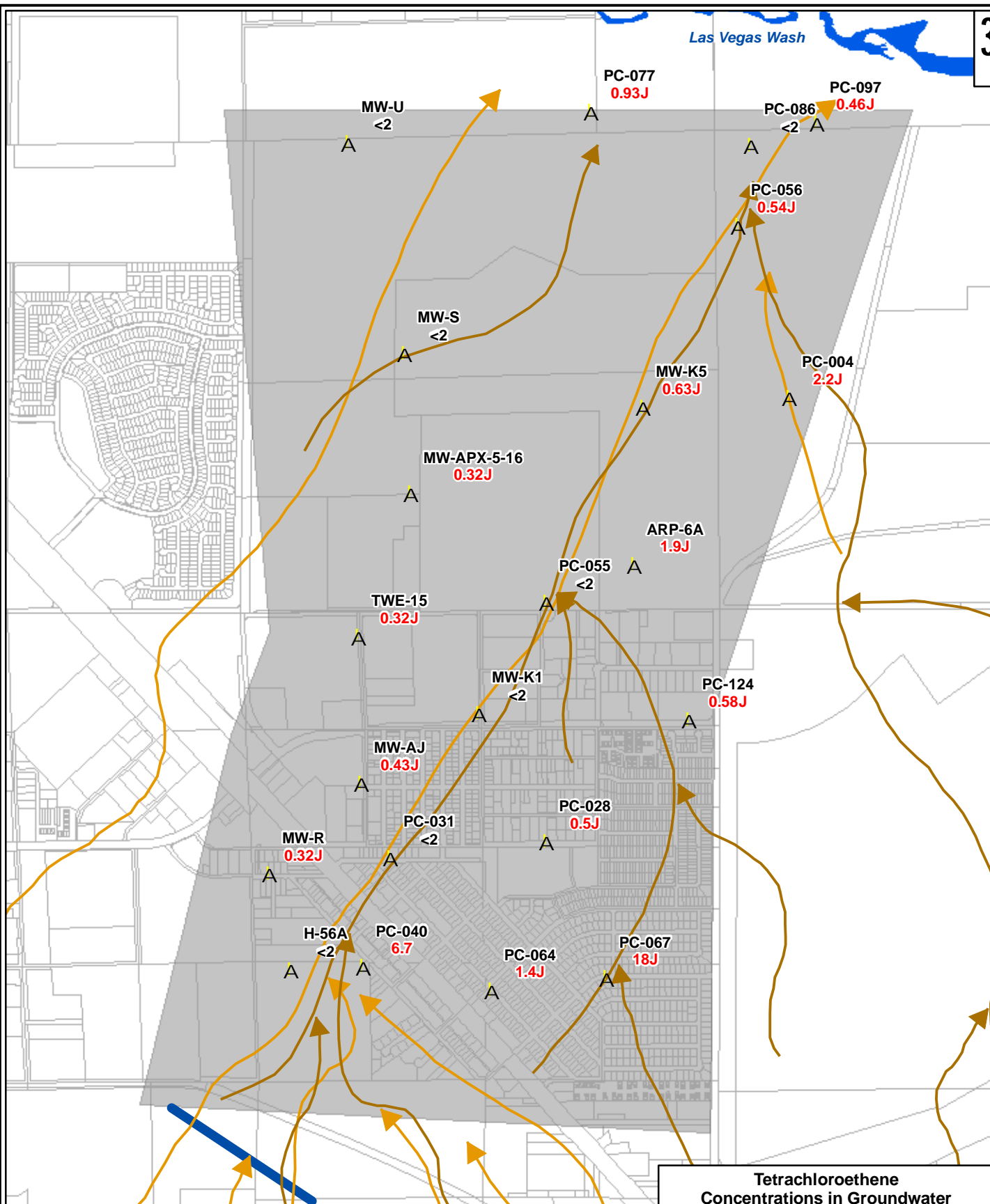
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Figure  
**4-6**



Las Vegas Wash



### Legend

- 6.7  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange Arrow Paleochannel (BRC Interpretation)
- Yellow Arrow Paleochannel (Tronox Interpretation)
- Blue Line Groundwater Treatment System (GWTS)
- Grey Shaded Area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

### Tetrachloroethene Concentrations in Groundwater Downgradient Study Area Investigation July 2006 Henderson, Nevada

1,500 750 0 1,500 Feet

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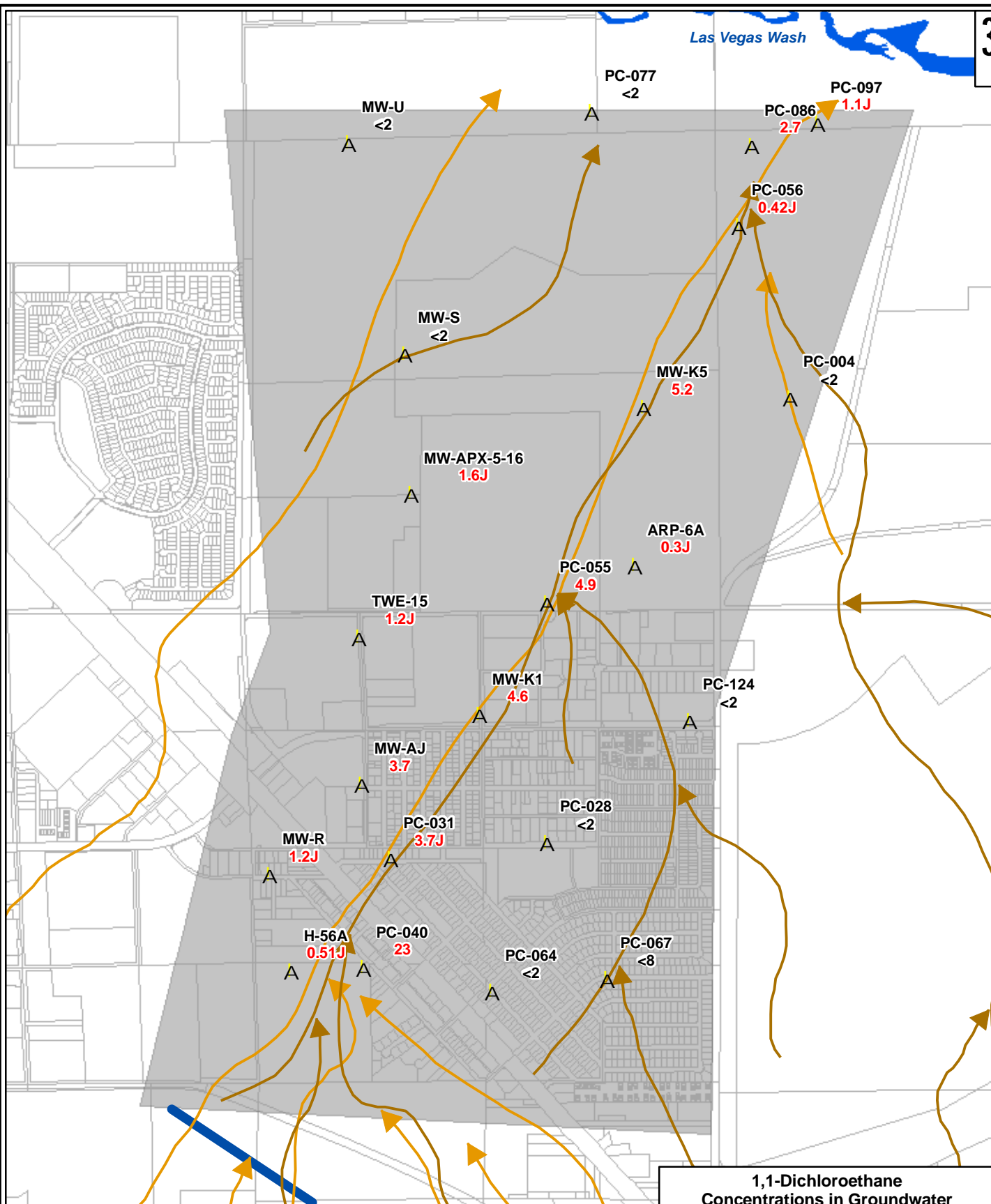
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Figure  
4-7

Las Vegas Wash

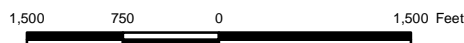


**Legend**

- 23  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTS)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**1,1-Dichloroethane  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

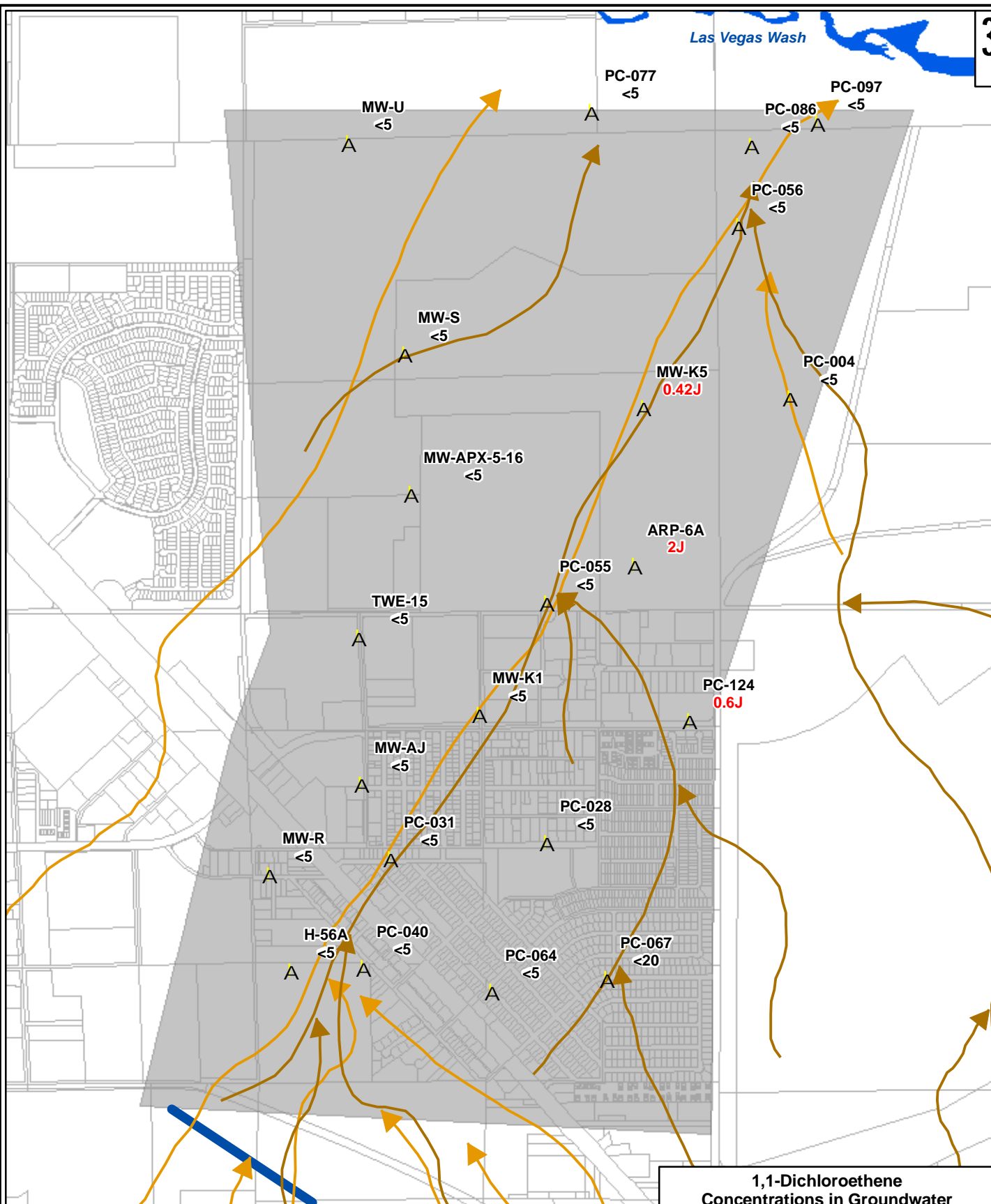


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Figure  
**4-8**

Las Vegas Wash

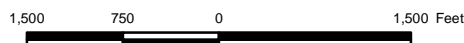


**Legend**

- 0.6J
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**1,1-Dichloroethene  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



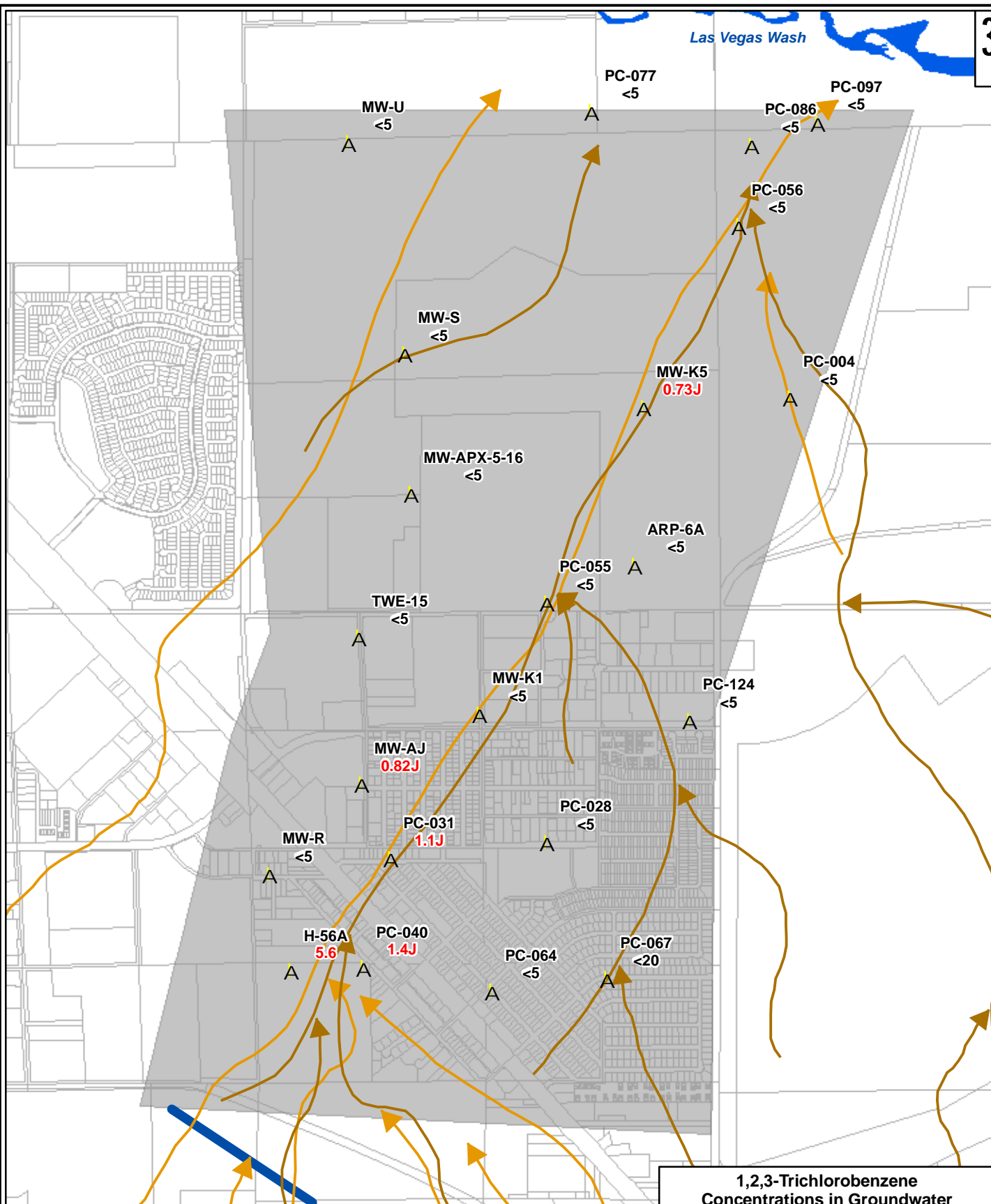
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Figure  
**4-9**



Las Vegas Wash

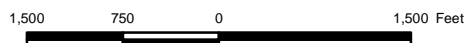


**Legend**

- 5.6  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange arrow Paleochannel (BRC Interpretation)
- Yellow arrow Paleochannel (Tronox Interpretation)
- Blue line Groundwater Treatment System (GWTs)
- Grey area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**1,2,3-Trichlorobenzene  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

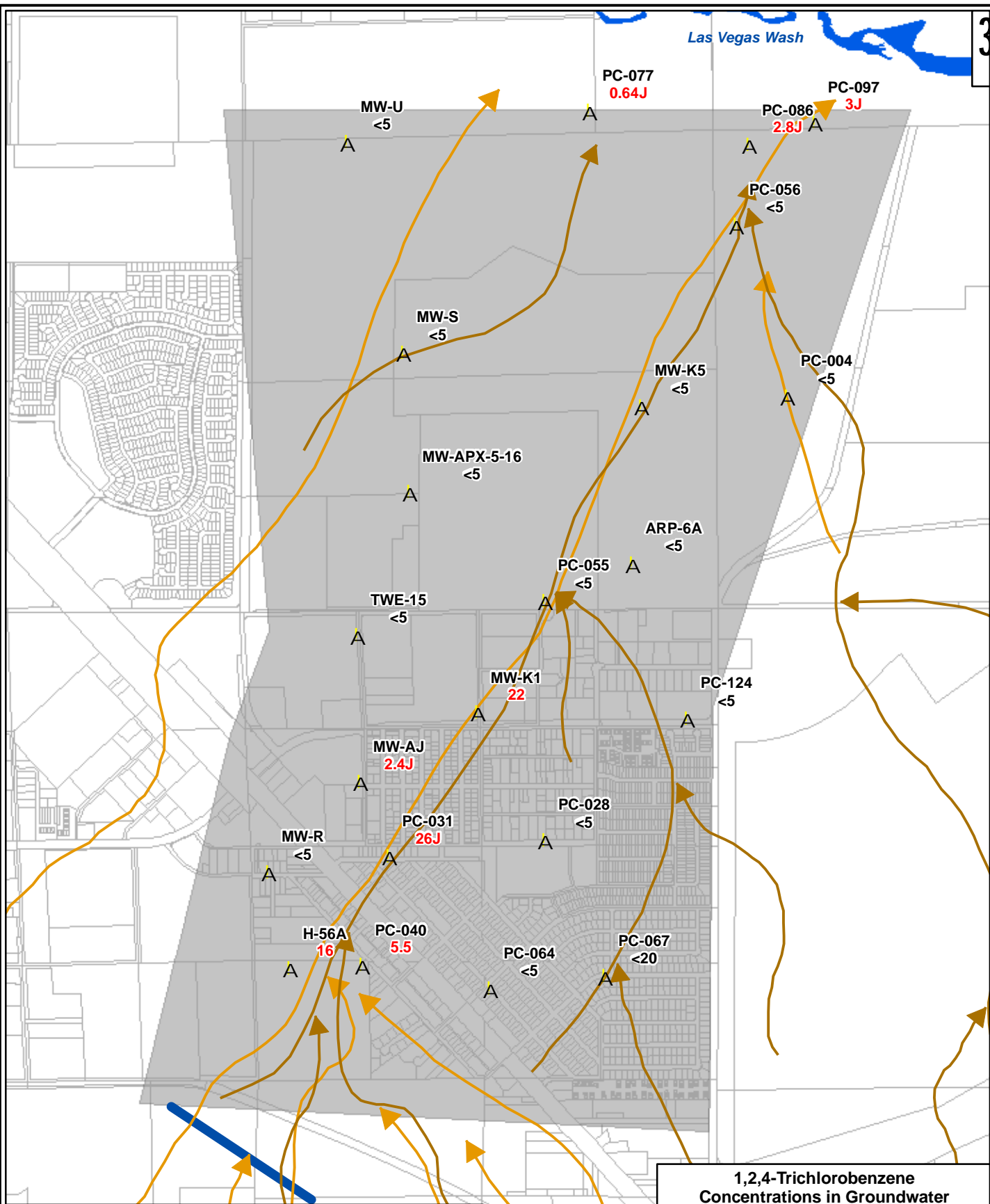


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Figure  
**4-10**

Las Vegas Wash

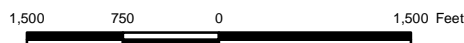


**Legend**

- 16  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**1,2,4-Trichlorobenzene  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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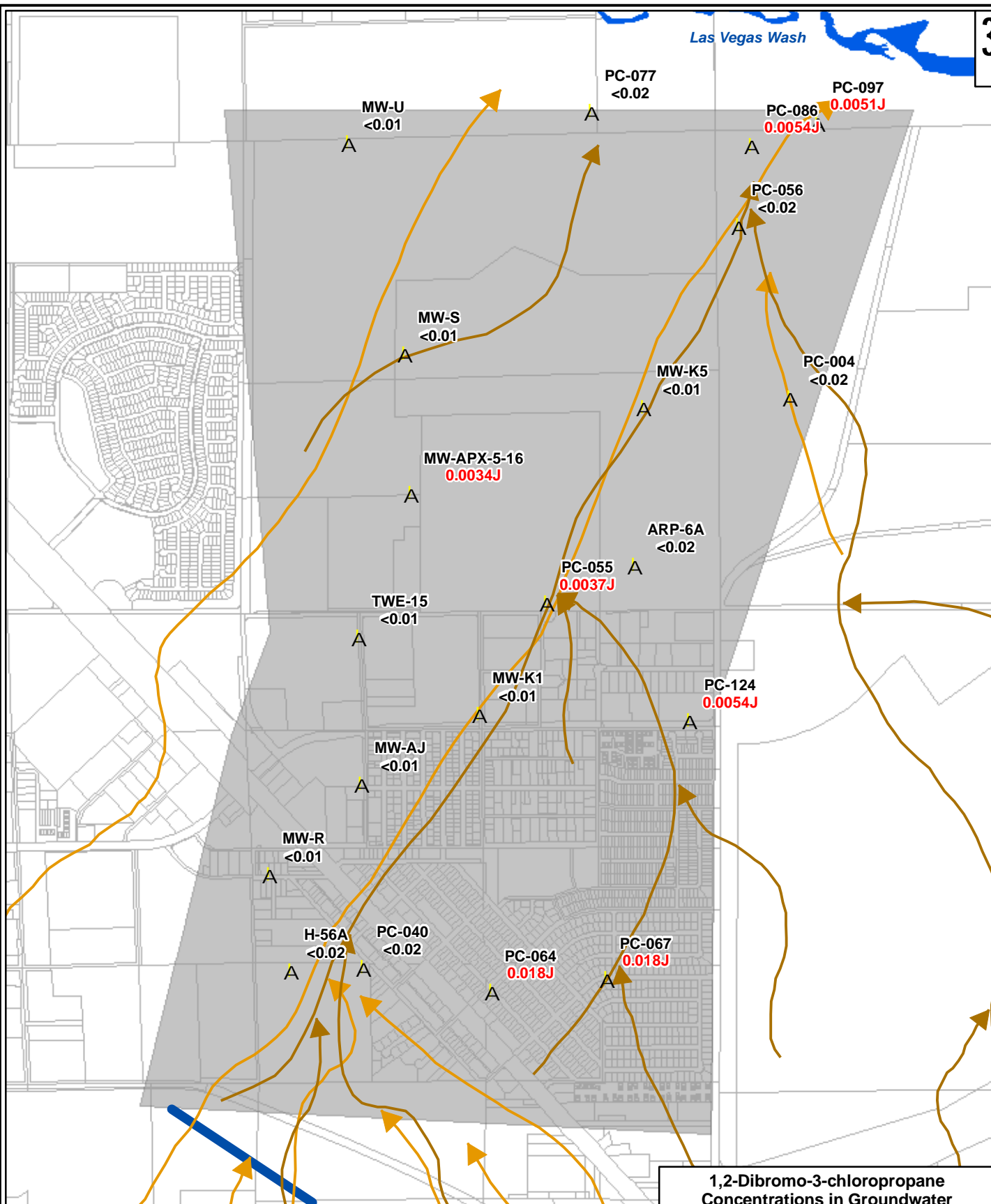
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Figure  
**4-11**

Las Vegas Wash

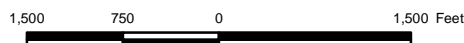


**Legend**

- 0.018J
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange Arrow Paleochannel (BRC Interpretation)
- Yellow Arrow Paleochannel (Tronox Interpretation)
- Blue Line Groundwater Treatment System (GWTS)
- Grey Area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**1,2-Dibromo-3-chloropropane  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**  
 Henderson, Nevada



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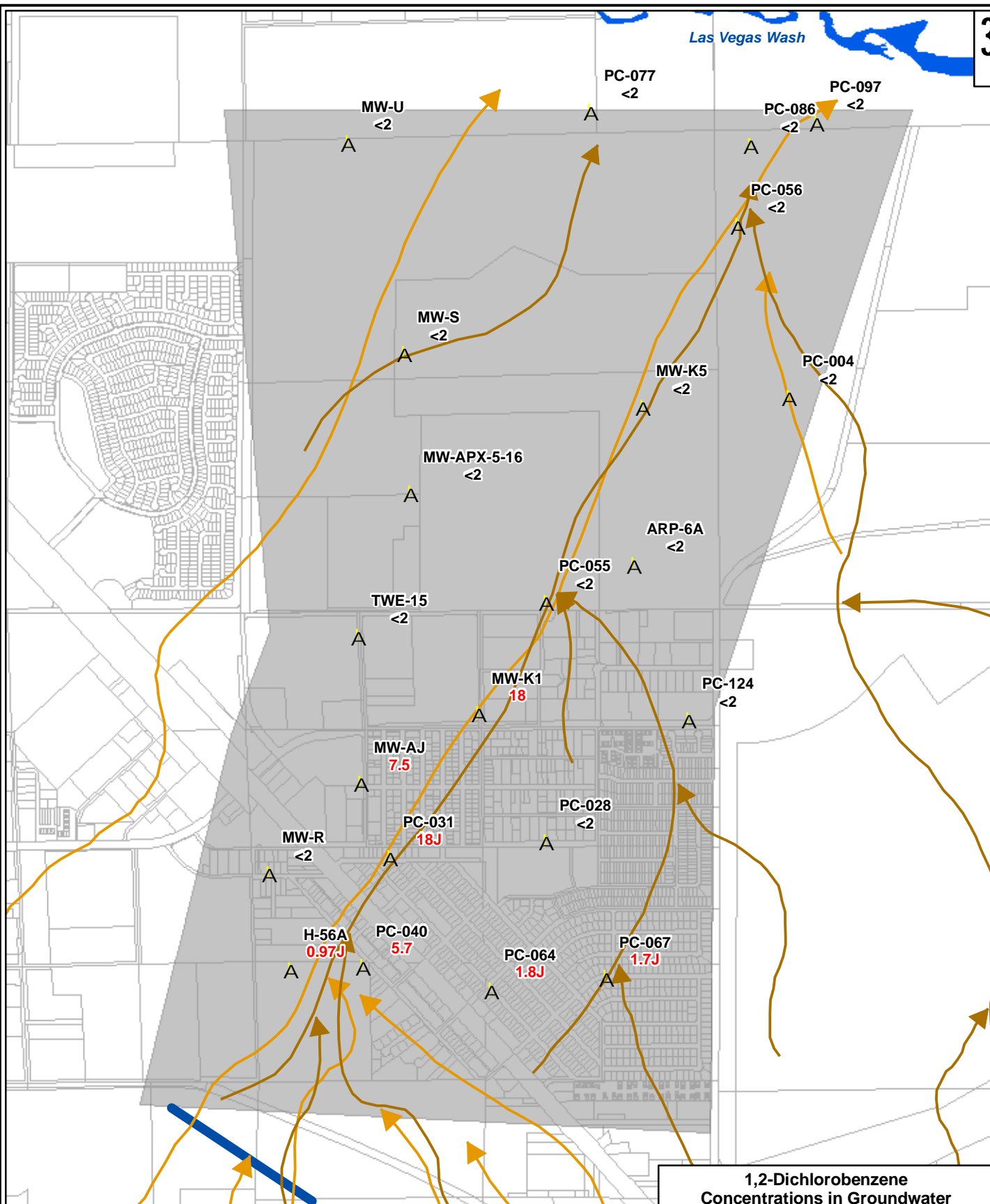
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Figure  
**4-12**



Las Vegas Wash

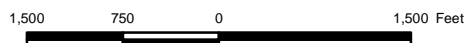


**Legend**

- 5.7  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange arrow Paleochannel (BRC Interpretation)
- Yellow arrow Paleochannel (Tronox Interpretation)
- Blue line Groundwater Treatment System (GWTs)
- Grey area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**1,2-Dichlorobenzene  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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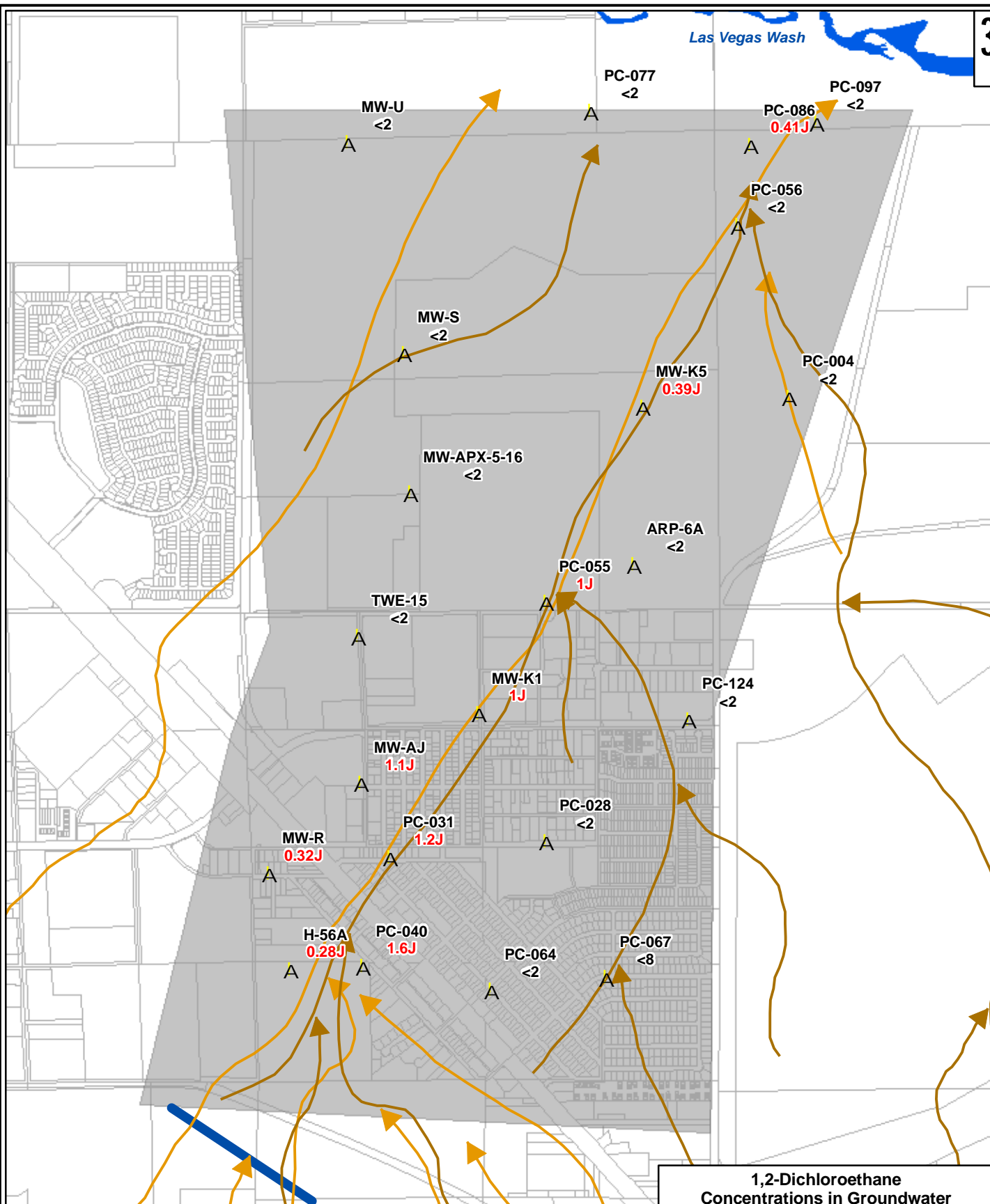
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Figure  
**4-13**

Las Vegas Wash

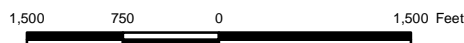


**Legend**

- 0.28J  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

**1,2-Dichloroethane  
Concentrations in Groundwater  
Downgradient Study Area Investigation  
July 2006**  
Henderson, Nevada

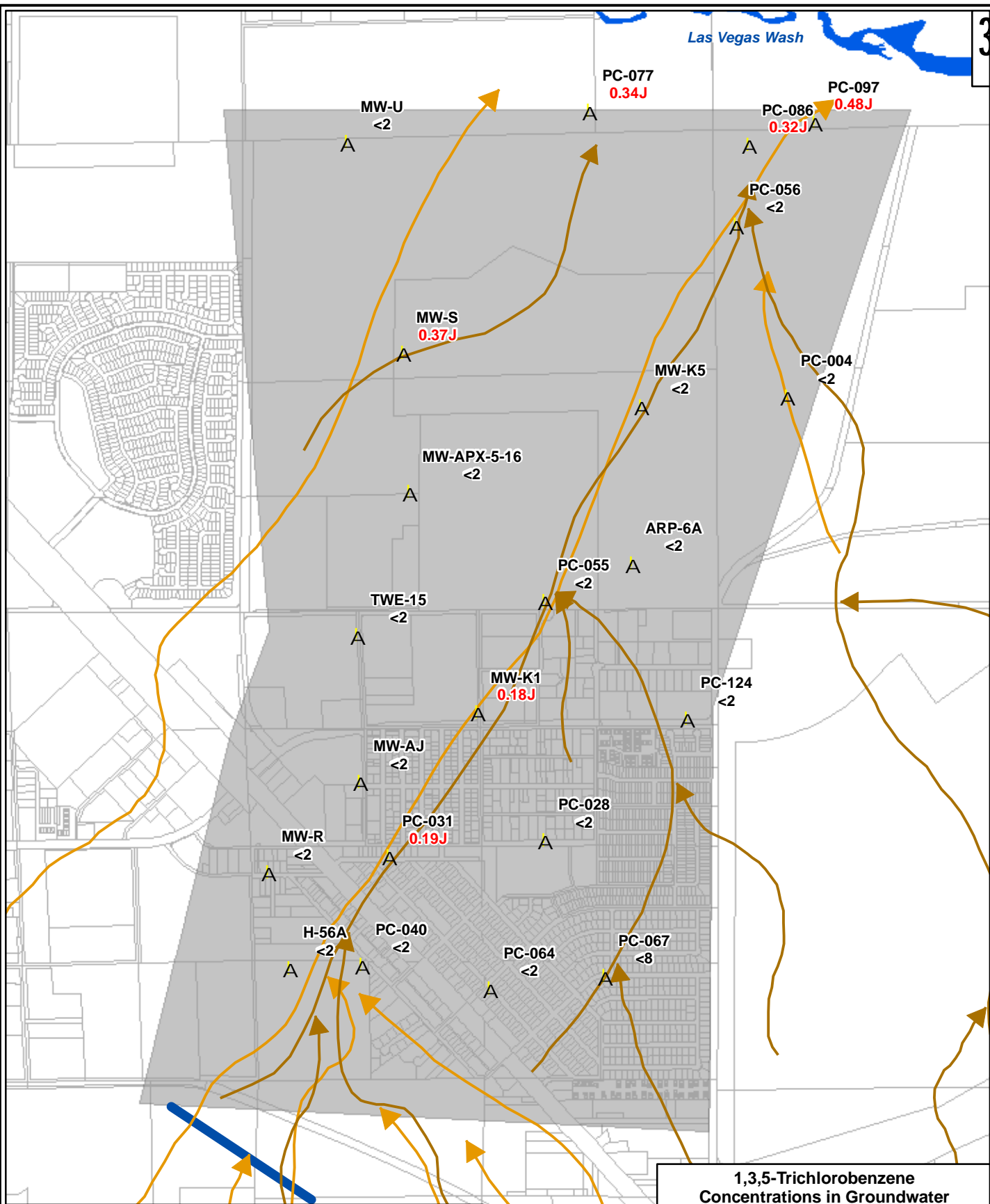


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Figure  
**4-14**

Las Vegas Wash

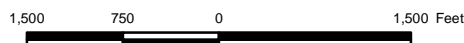


**Legend**

- 0.19J
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTS)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**1,3,5-Trichlorobenzene  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**  
 Henderson, Nevada



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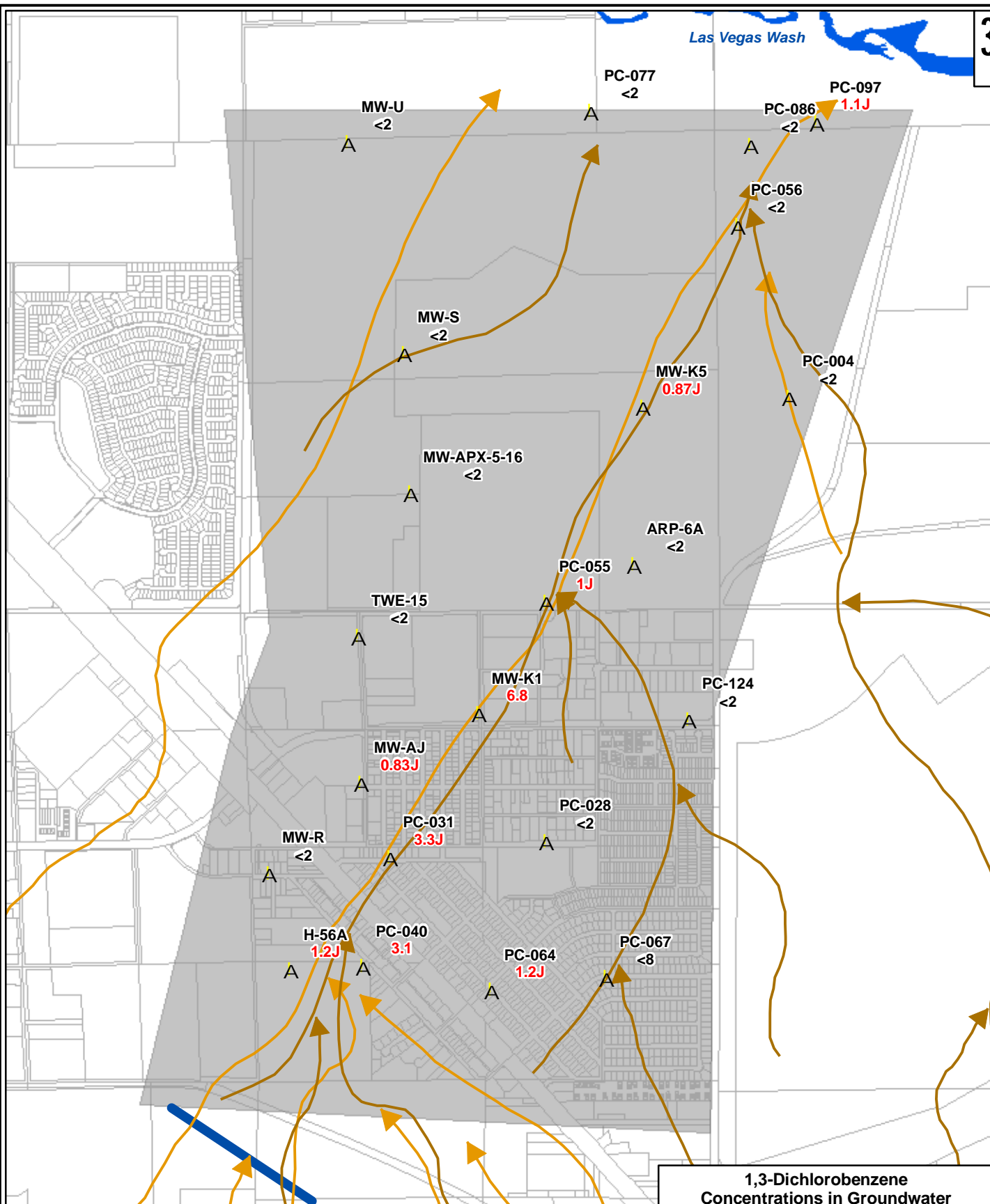
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Figure  
**4-15**

Las Vegas Wash

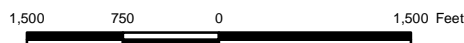


**Legend**

- 3.1  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange arrow Paleochannel (BRC Interpretation)
- Yellow arrow Paleochannel (Tronox Interpretation)
- Blue line Groundwater Treatment System (GWTs)
- Grey shaded area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**1,3-Dichlorobenzene  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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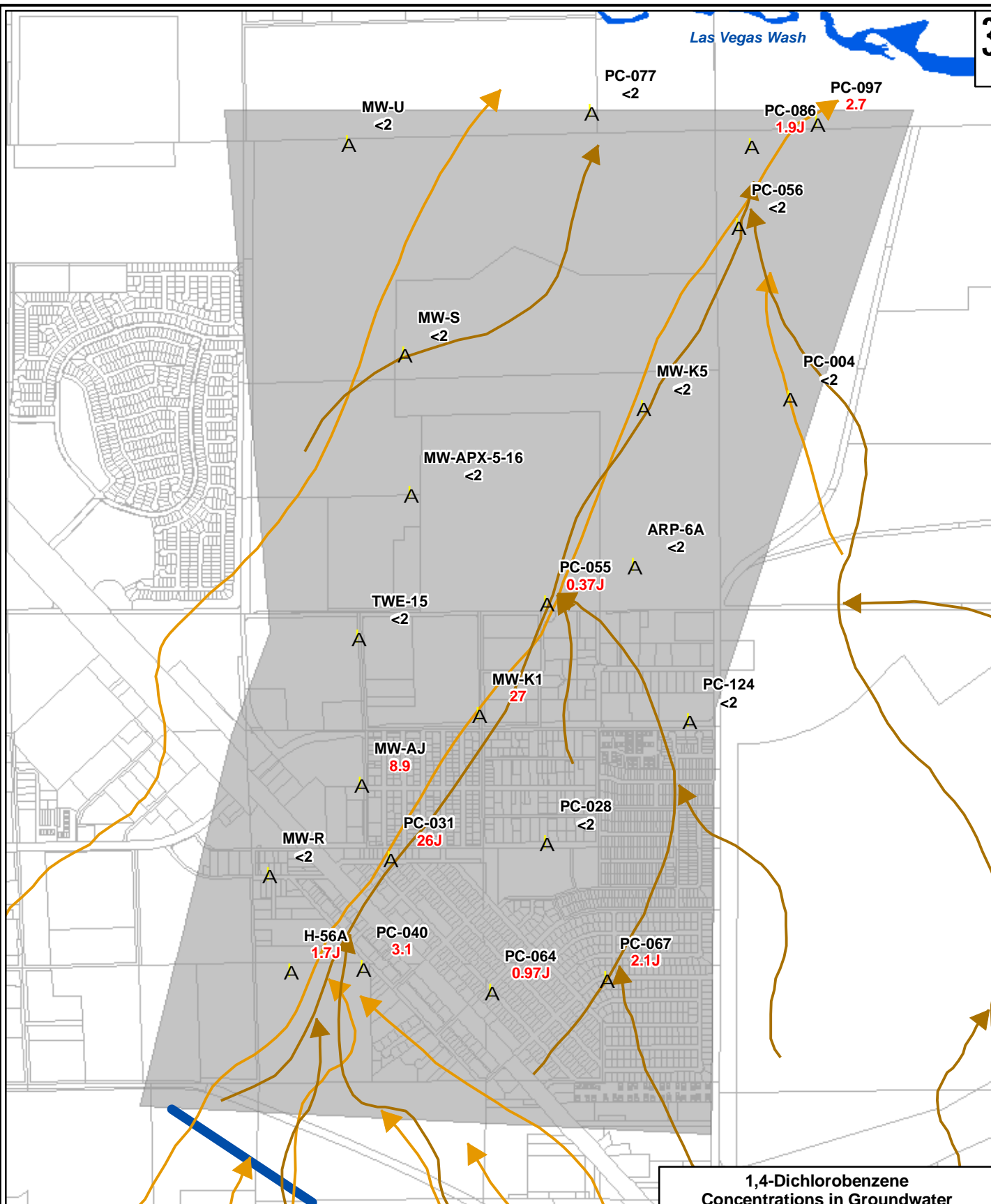
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Figure  
**4-16**



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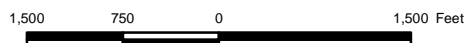


**Legend**

- 3.1  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange arrow Paleochannel (BRC Interpretation)
- Yellow arrow Paleochannel (Tronox Interpretation)
- Blue line Groundwater Treatment System (GWTS)
- Grey area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**1,4-Dichlorobenzene  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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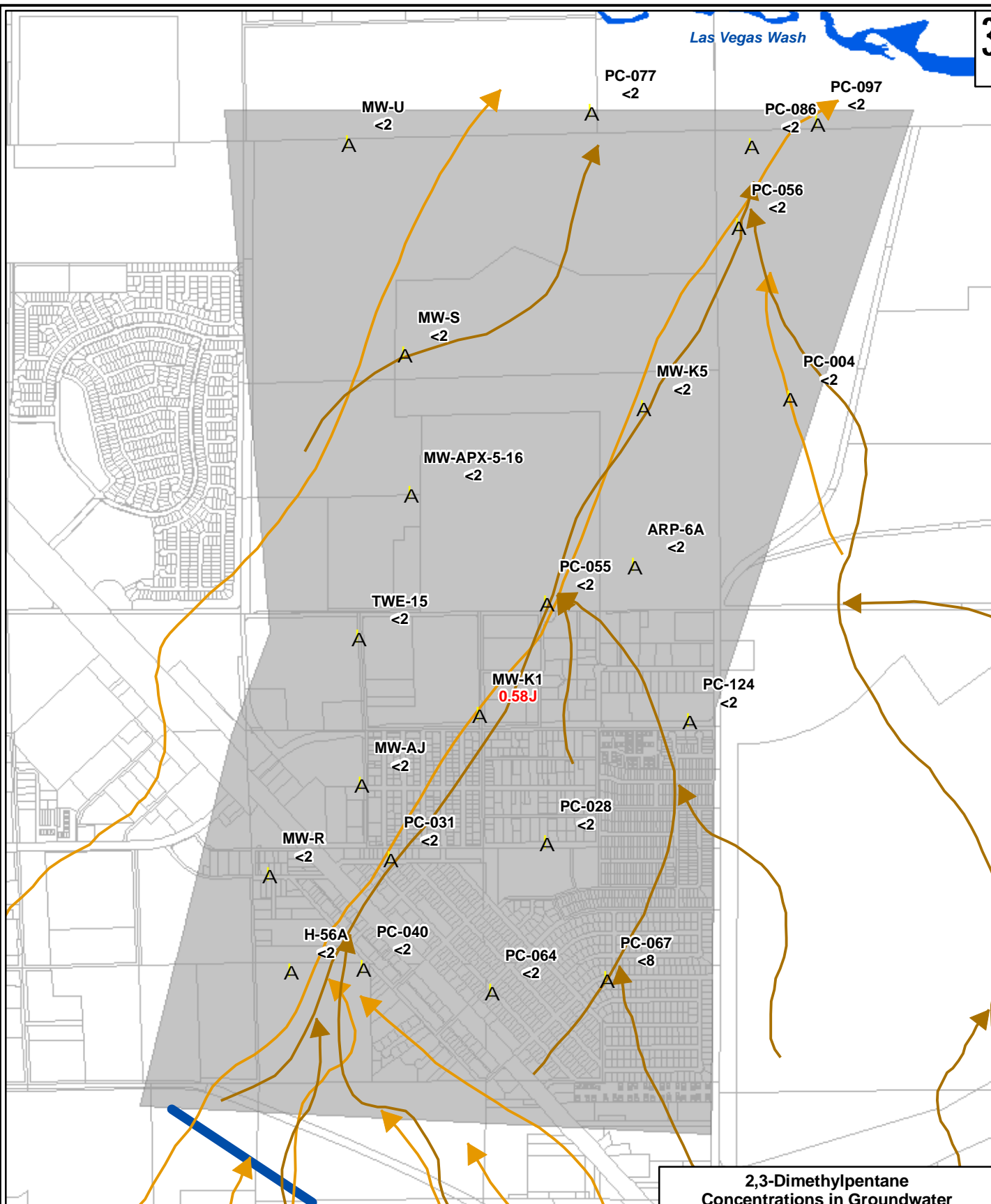
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Figure  
**4-17**

Las Vegas Wash

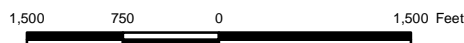


**Legend**

- 0.58J
- A** Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTS)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**2,3-Dimethylpentane  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**  
 Henderson, Nevada

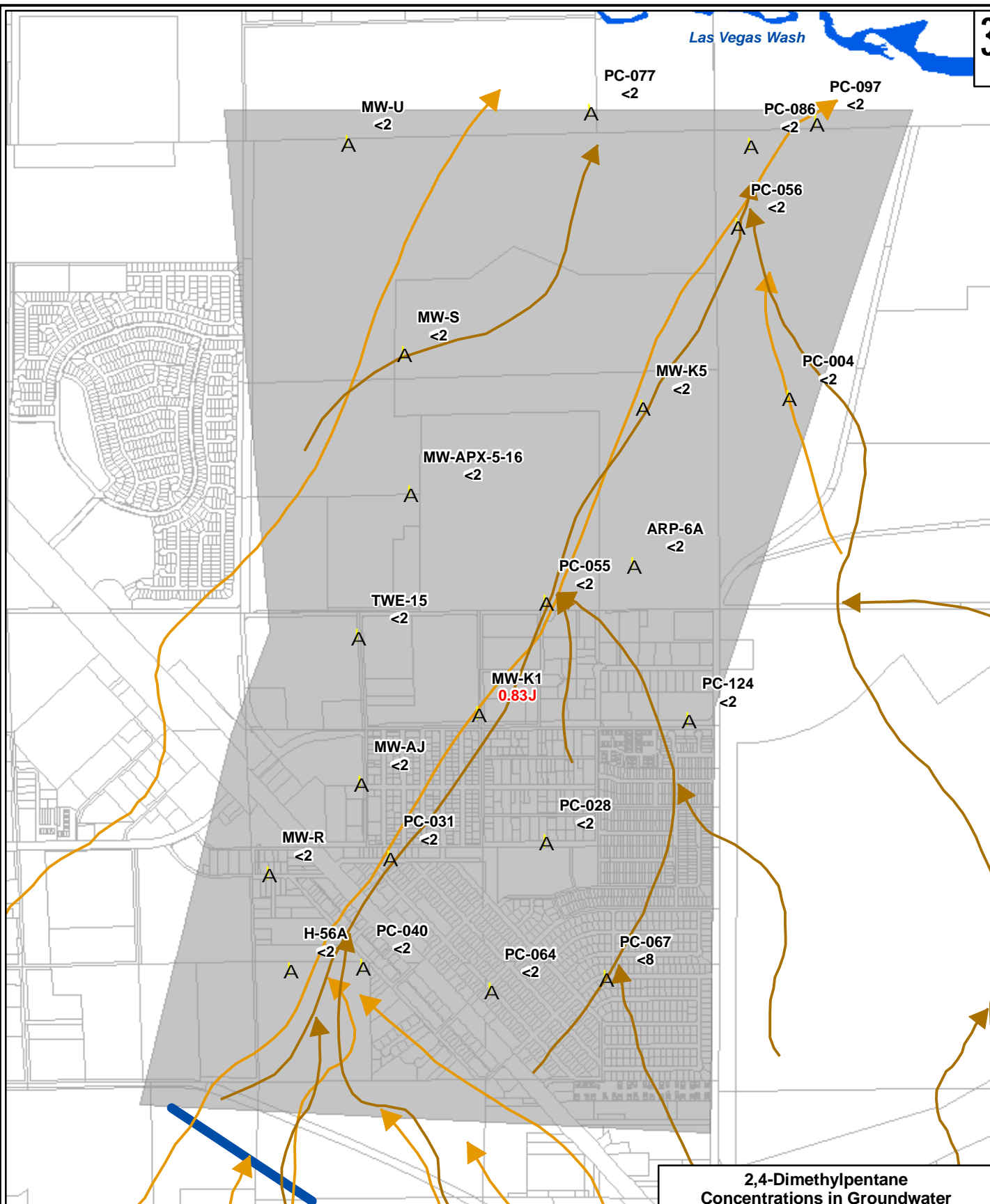


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Figure  
**4-18**

Las Vegas Wash

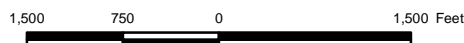


**Legend**

- 0.83J
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTS)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**2,4-Dimethylpentane  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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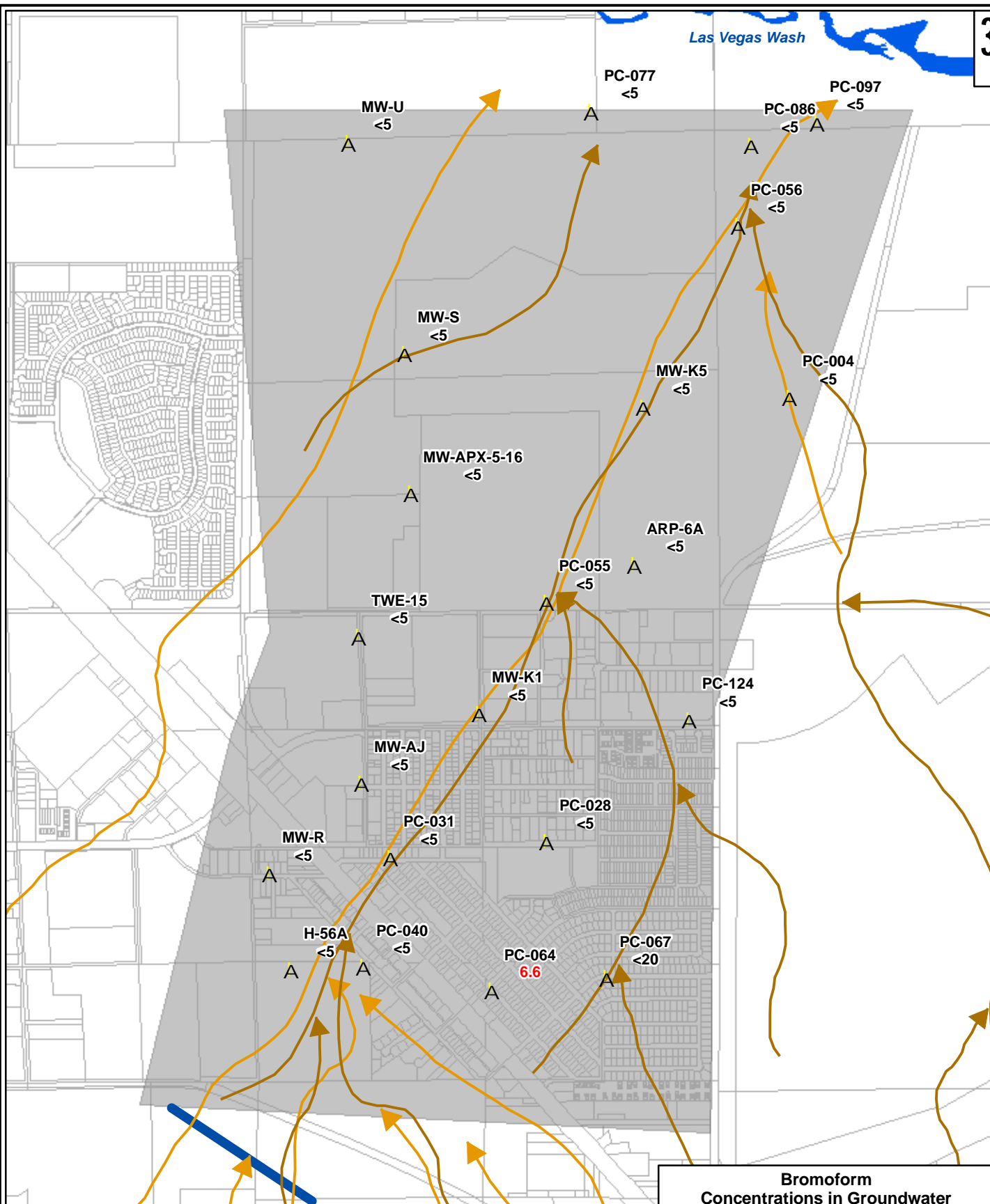
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Figure  
**4-19**

Las Vegas Wash



**Legend**

- 6.6  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange arrow Paleochannel (BRC Interpretation)
- Yellow arrow Paleochannel (Tronox Interpretation)
- Blue line Groundwater Treatment System (GWTs)
- Grey shaded area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Bromoform  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

1,500 750 0 1,500 Feet

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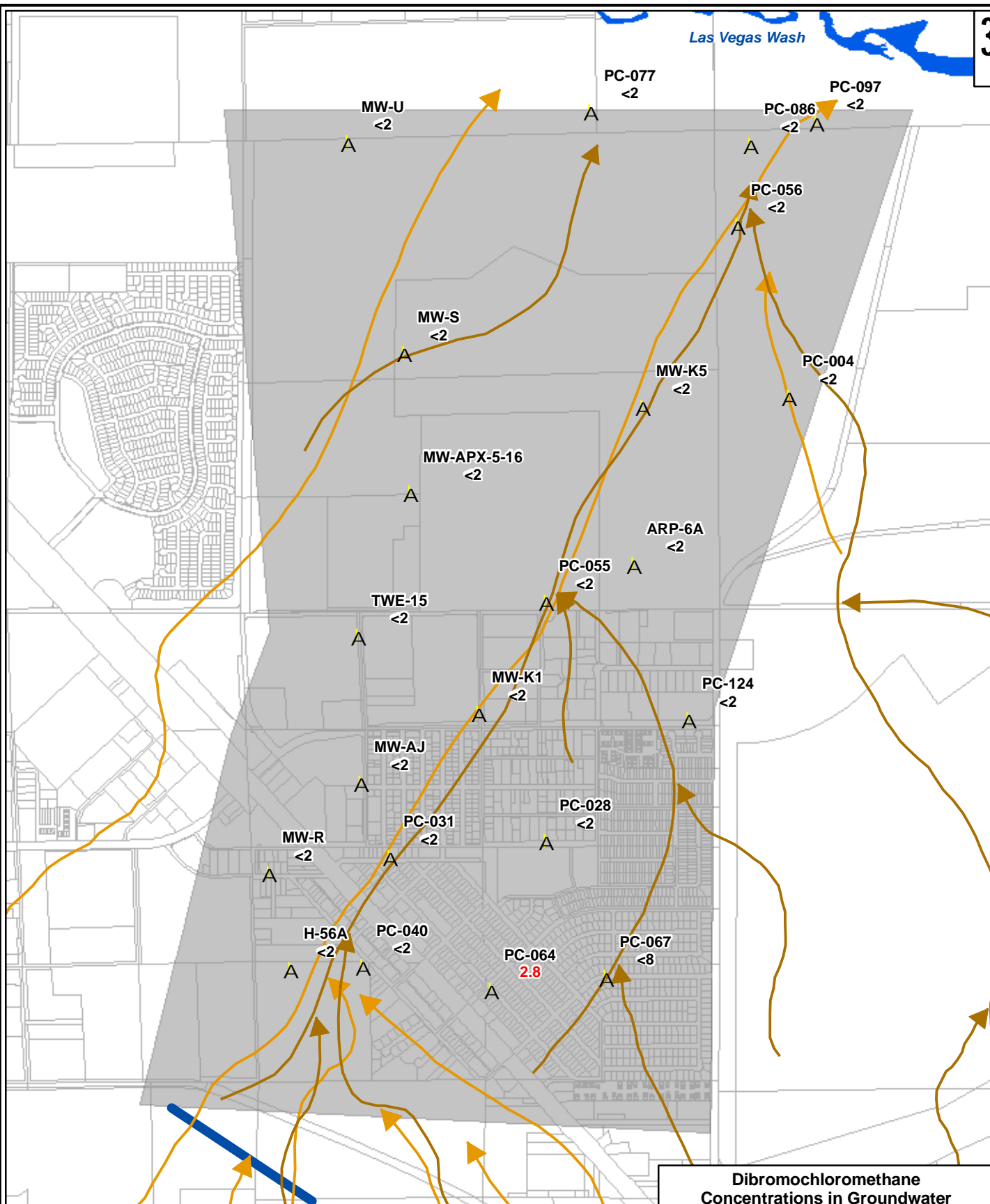
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Figure  
**4-20**



Las Vegas Wash

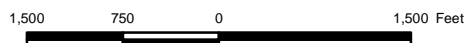


**Legend**

- 2.8  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Dibromochloromethane  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**  
 Henderson, Nevada



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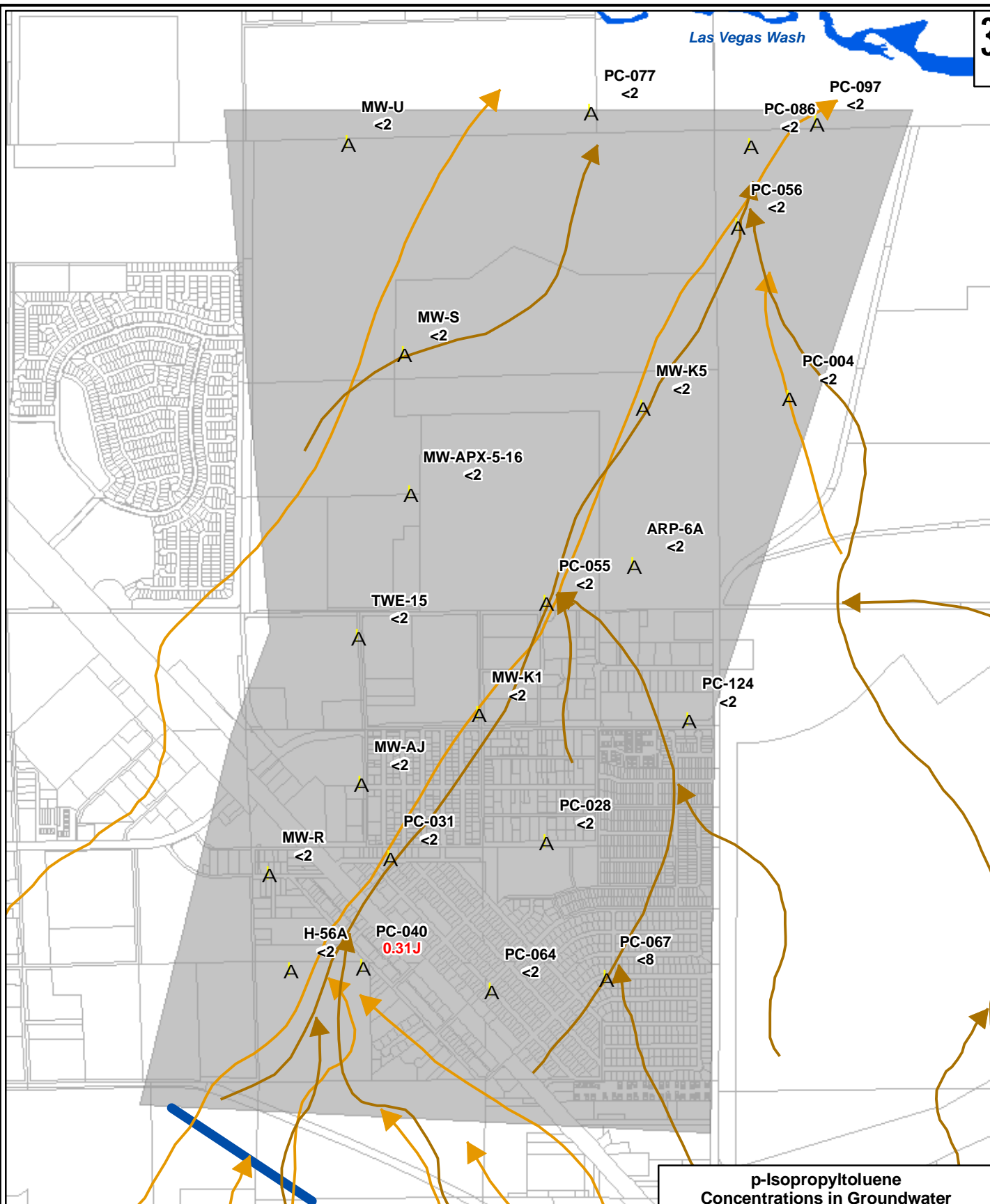
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Figure  
**4-21**

Las Vegas Wash



**Legend**

- 0.31J
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**p-Isopropyltoluene  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

1,500 750 0 1,500 Feet

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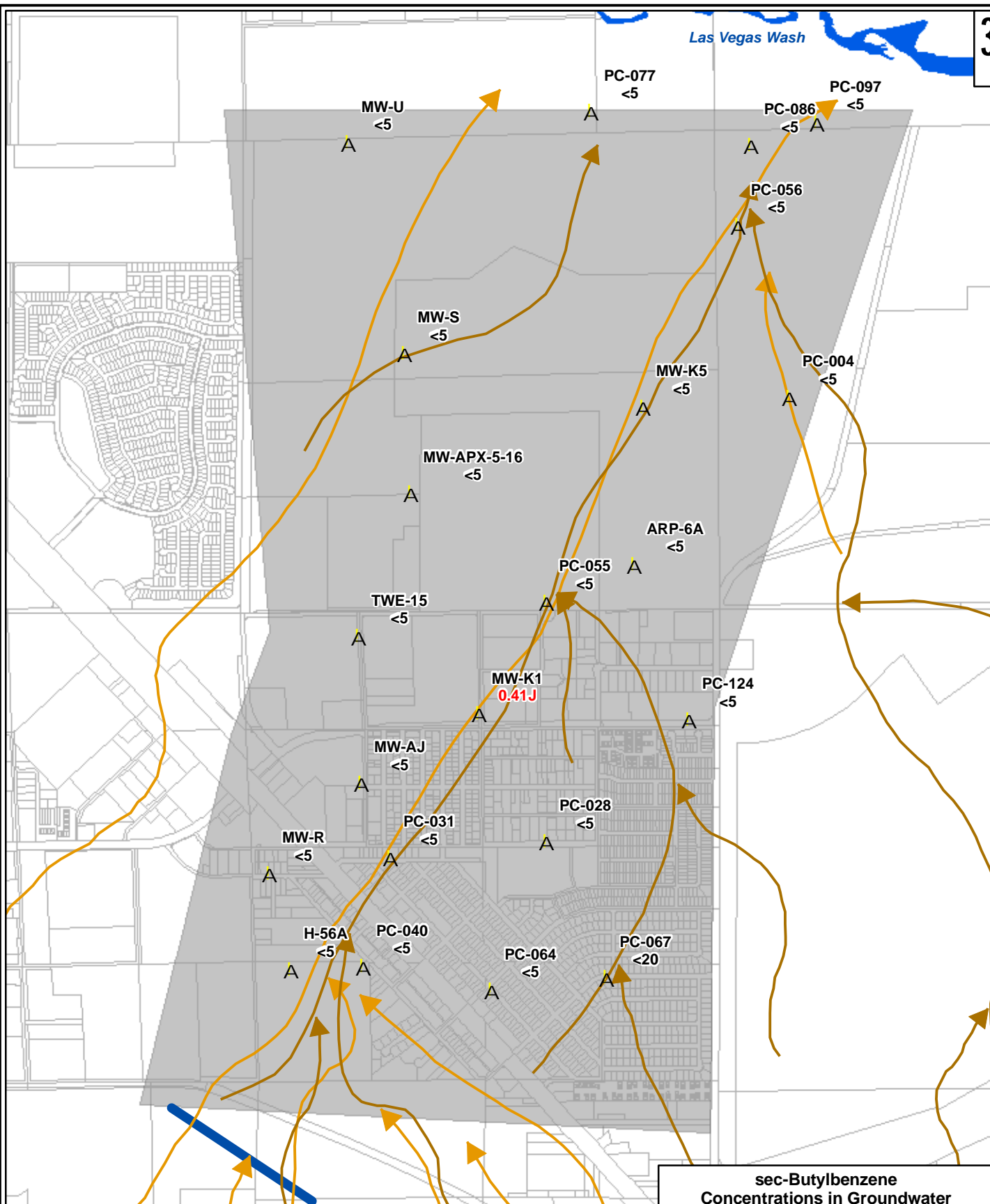
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Figure  
**4-22**

Las Vegas Wash



**Legend**

- 0.41J
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**sec-Butylbenzene  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

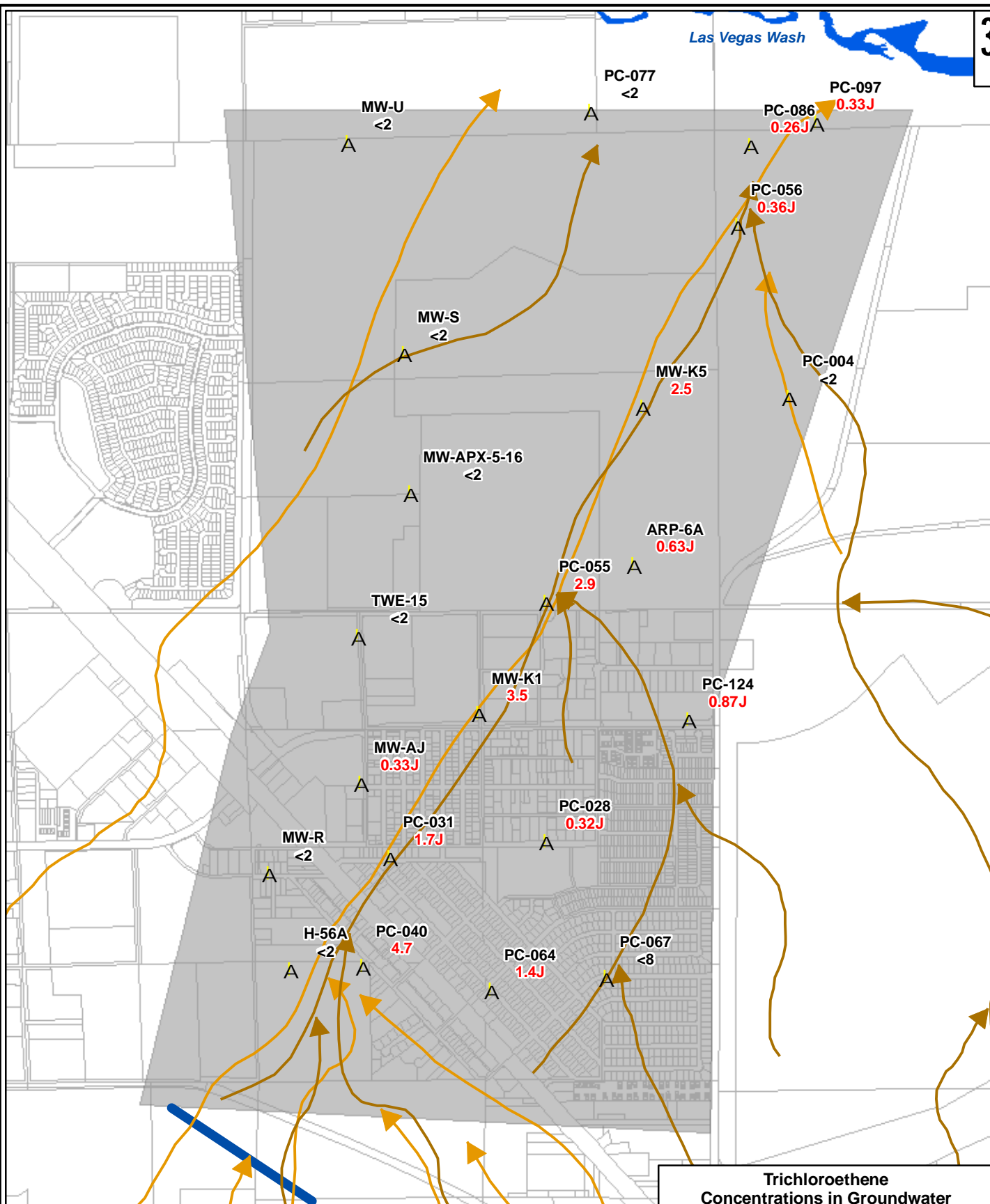
1,500 750 0 1,500 Feet

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HW0934B  
 Revision: 01  
 30-Mar-2007

Figure  
**4-23**

Las Vegas Wash

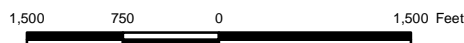


**Legend**

- 4.7  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange arrow Paleochannel (BRC Interpretation)
- Yellow arrow Paleochannel (Tronox Interpretation)
- Blue line Groundwater Treatment System (GWTs)
- Grey area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Trichloroethene  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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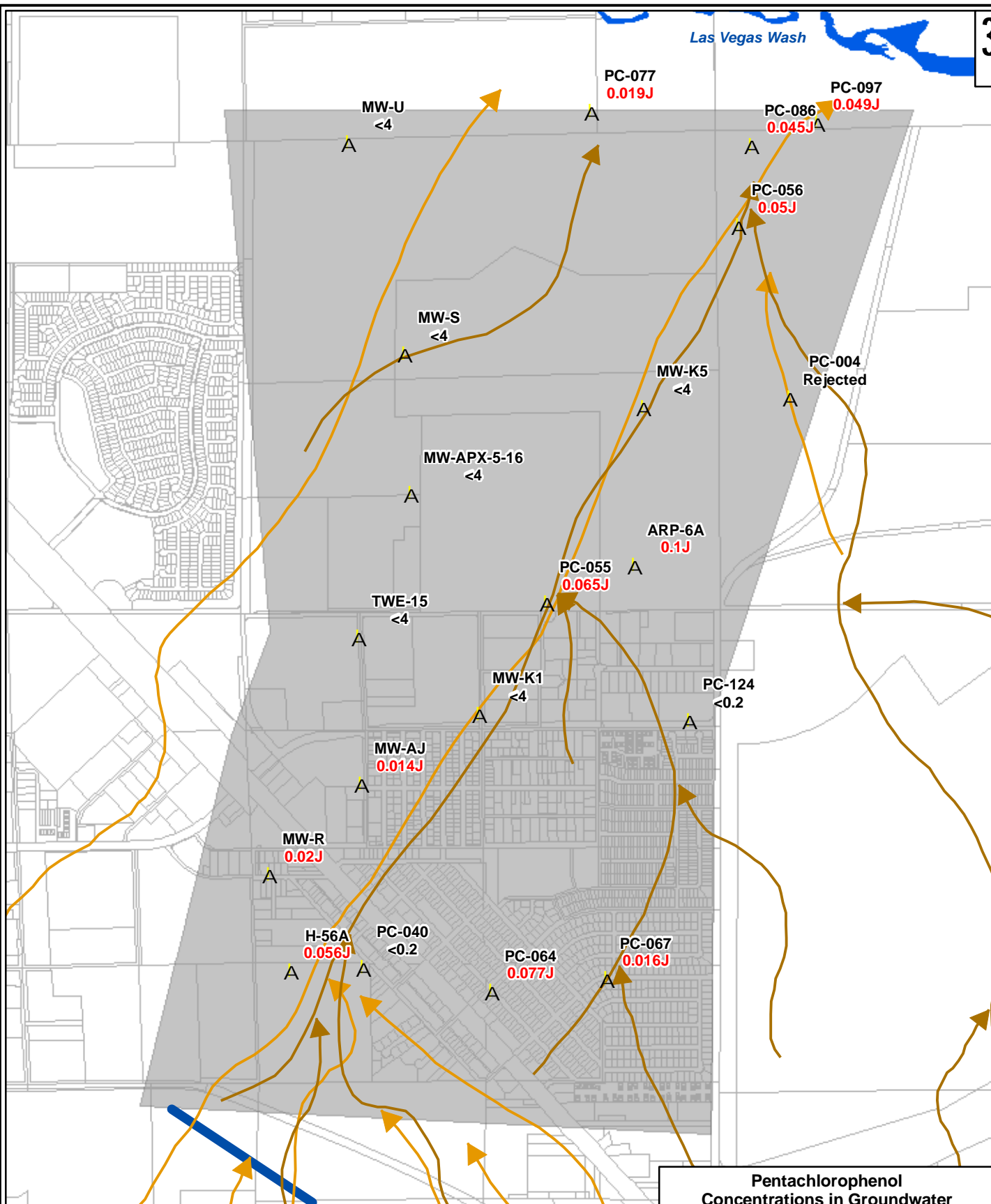
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Figure  
**4-24**



Las Vegas Wash

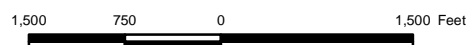


**Legend**

- 0.056J
- A** Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Pentachlorophenol  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**  
 Henderson, Nevada



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HW0934B

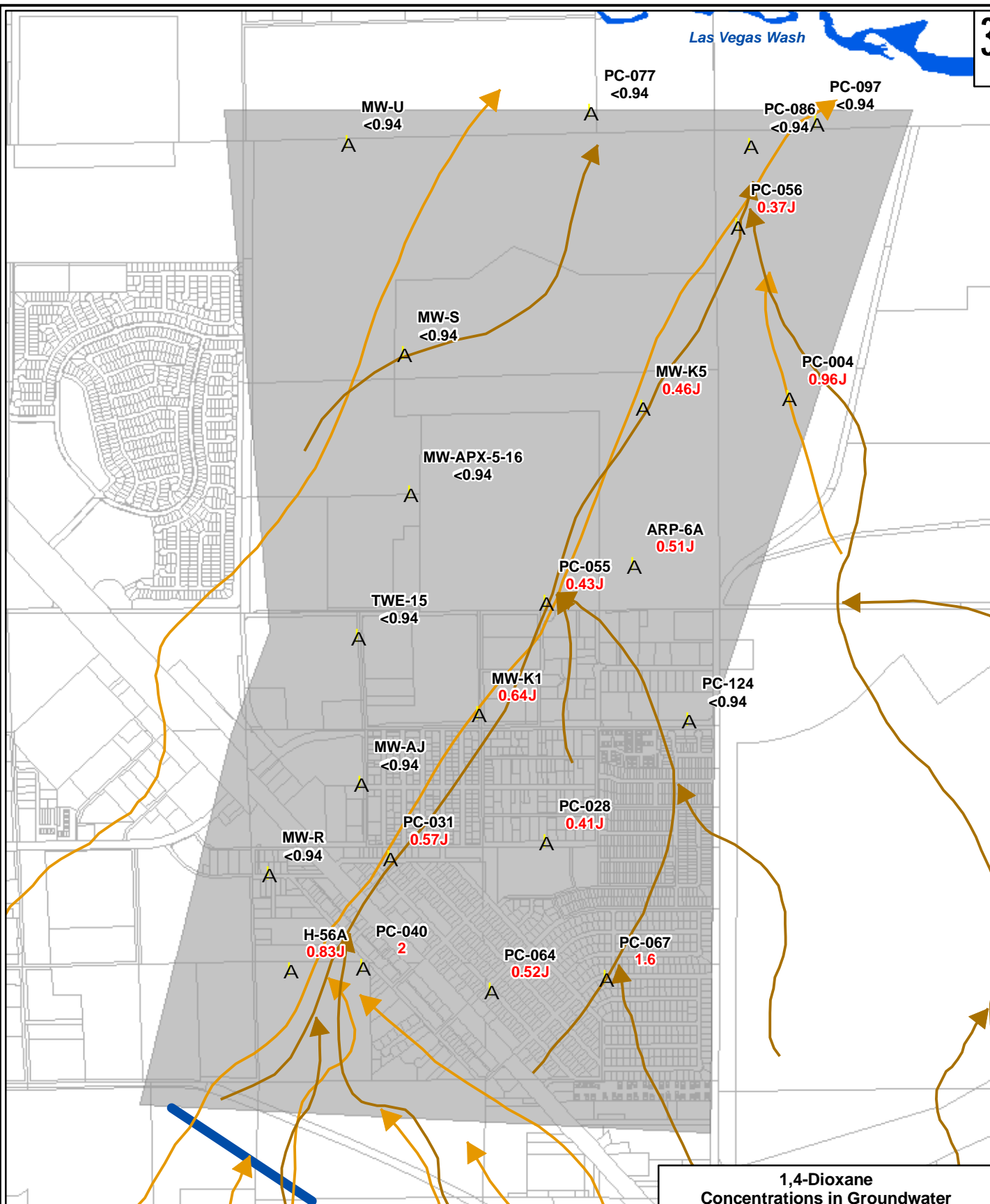
Revision: 01

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30-Mar-2007

Figure  
**4-25**

Las Vegas Wash

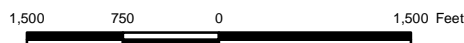


### Legend

- A <sup>2</sup> Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

### 1,4-Dioxane Concentrations in Groundwater Downgradient Study Area Investigation July 2006 Henderson, Nevada



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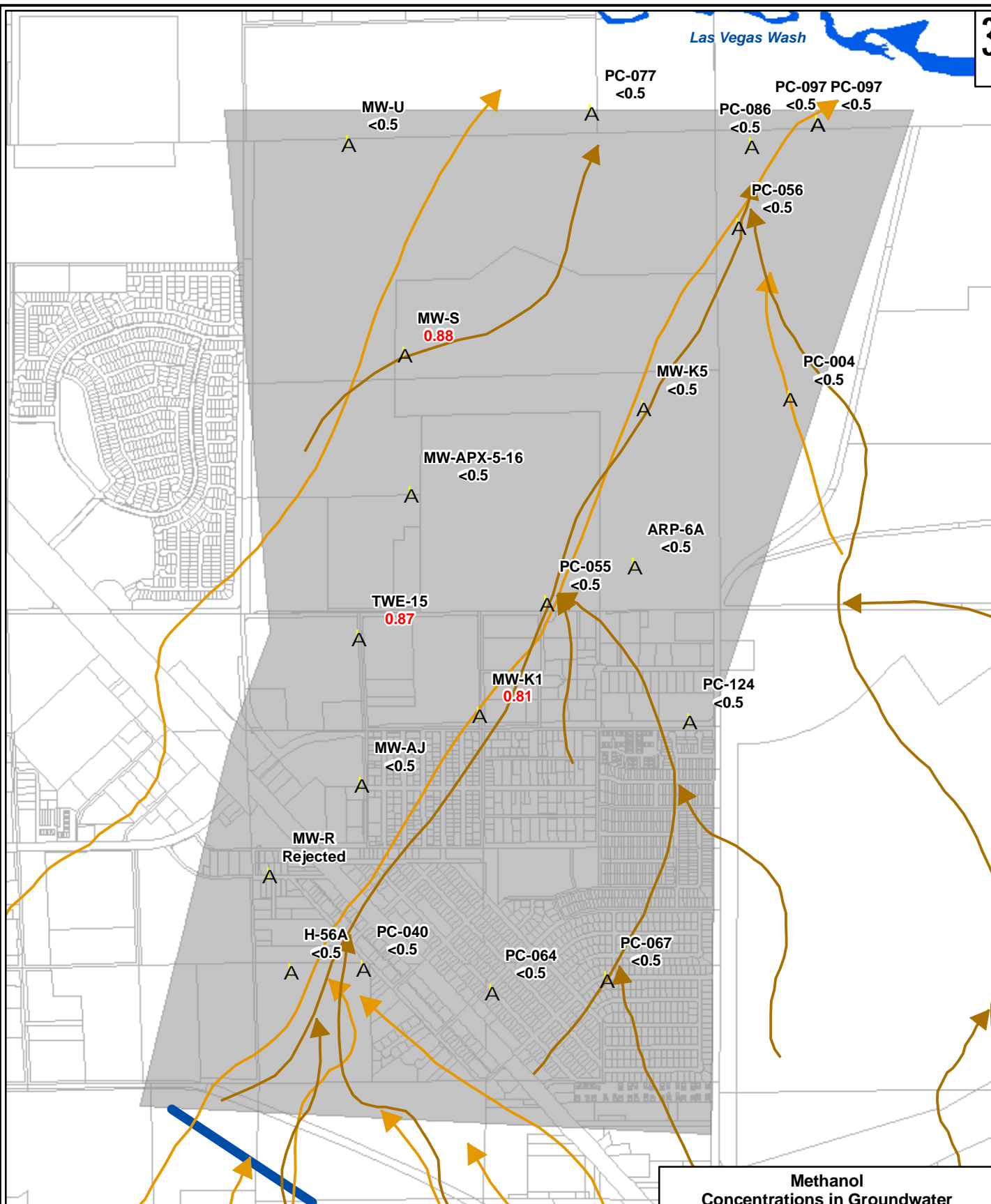
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Figure  
**4-26**

Las Vegas Wash

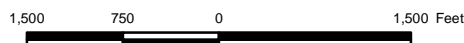


**Legend**

- 0.81
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange Arrow Paleochannel (BRC Interpretation)
- Yellow Arrow Paleochannel (Tronox Interpretation)
- Blue Line Groundwater Treatment System (GWTS)
- Grey Area Downgradient Study Area

Note: Concentrations in milligrams per liter (mg/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Methanol  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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 consultants

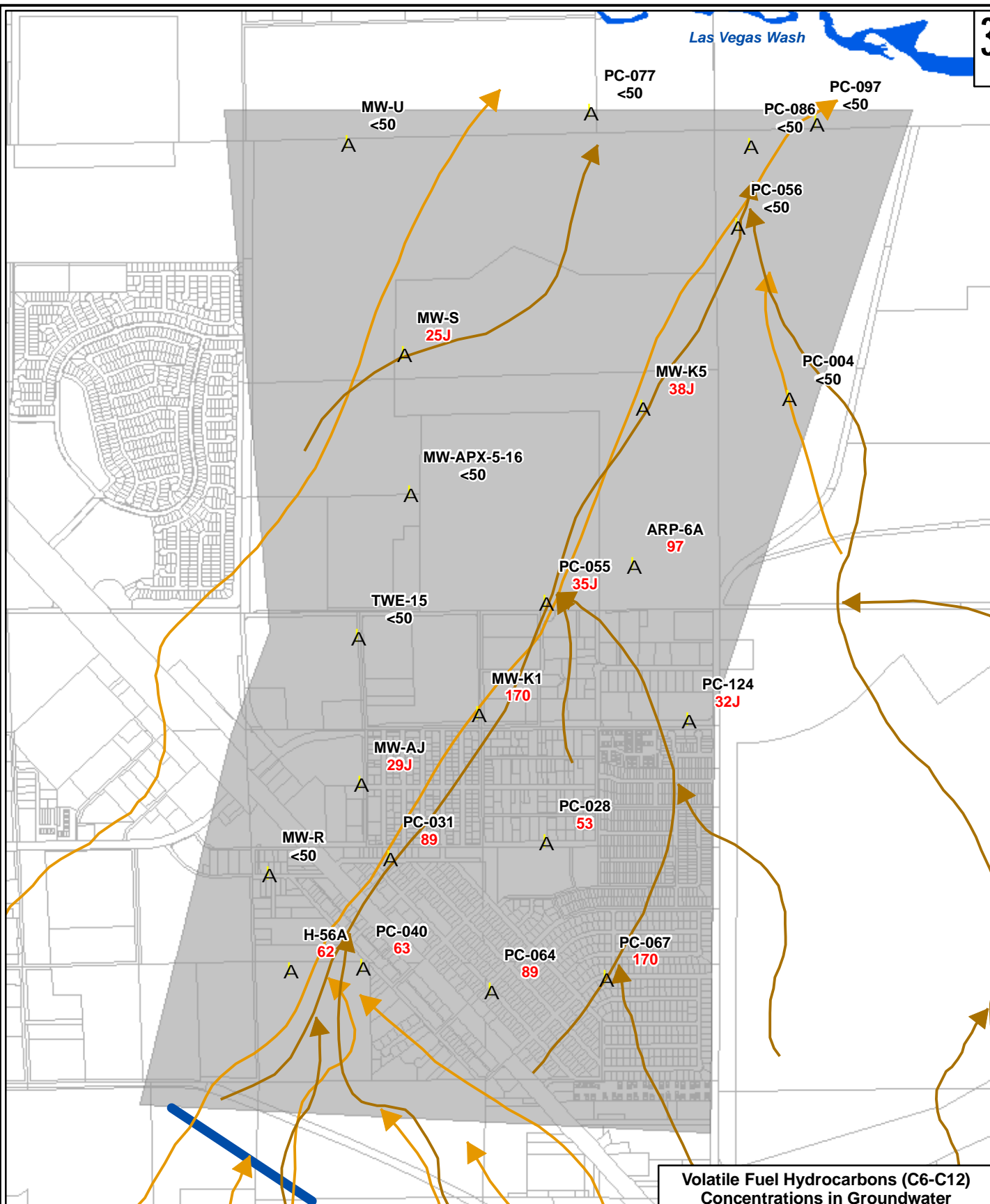
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Huntington Beach, CA

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Figure  
**4-27**

Las Vegas Wash



# Legend

- 62 A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in milligrams per liter (mg/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

## Volatile Fuel Hydrocarbons (C6-C12) Concentrations in Groundwater Downgradient Study Area Investigation July 2006 Henderson, Nevada

1,500 750 0 1,500 Feet

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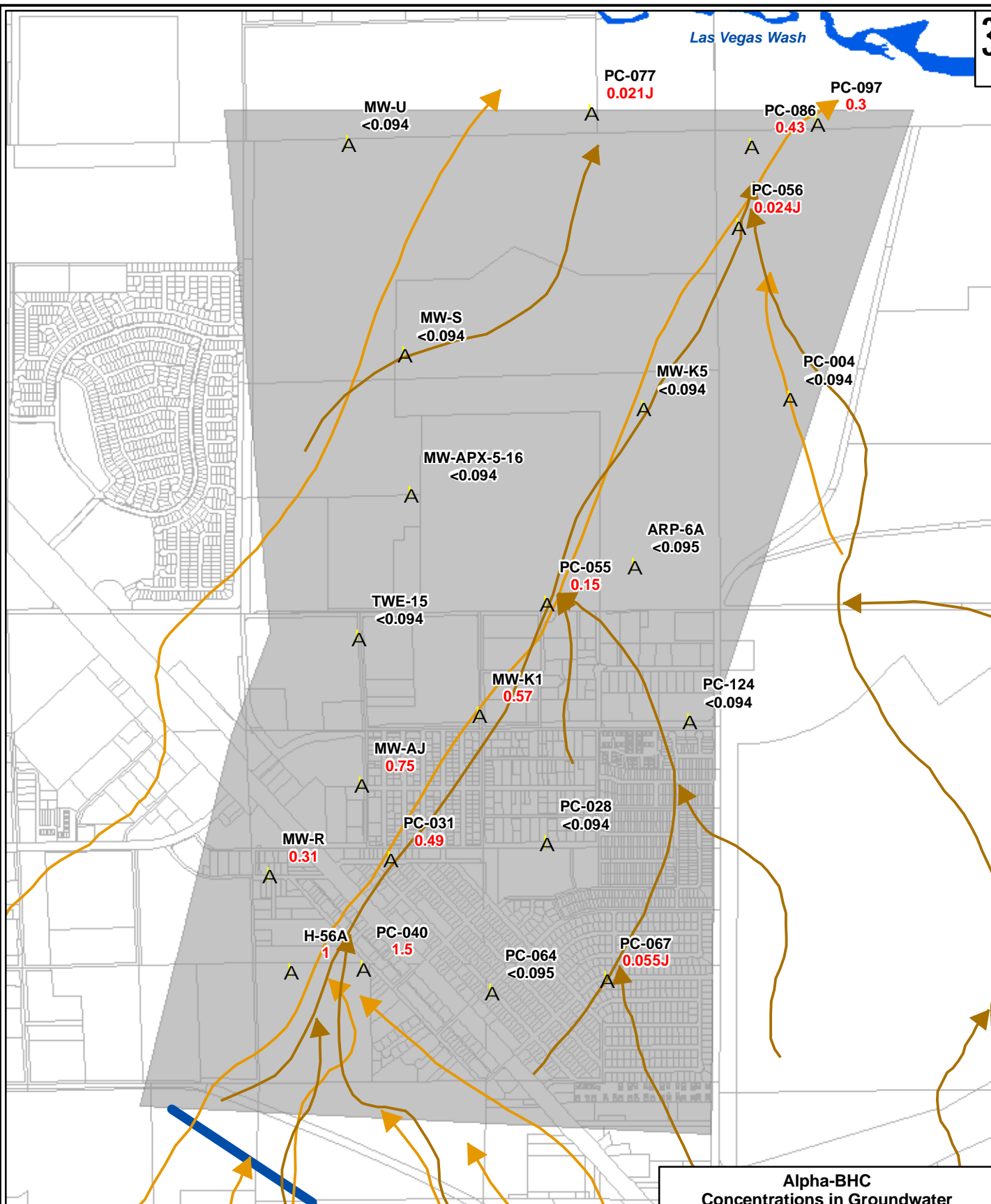
Huntington Beach, CA

30-Mar-2007

Figure  
 4-28



Las Vegas Wash

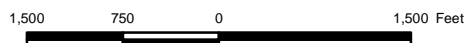


### Legend

- 1** Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

### Alpha-BHC Concentrations in Groundwater Downgradient Study Area Investigation July 2006 Henderson, Nevada



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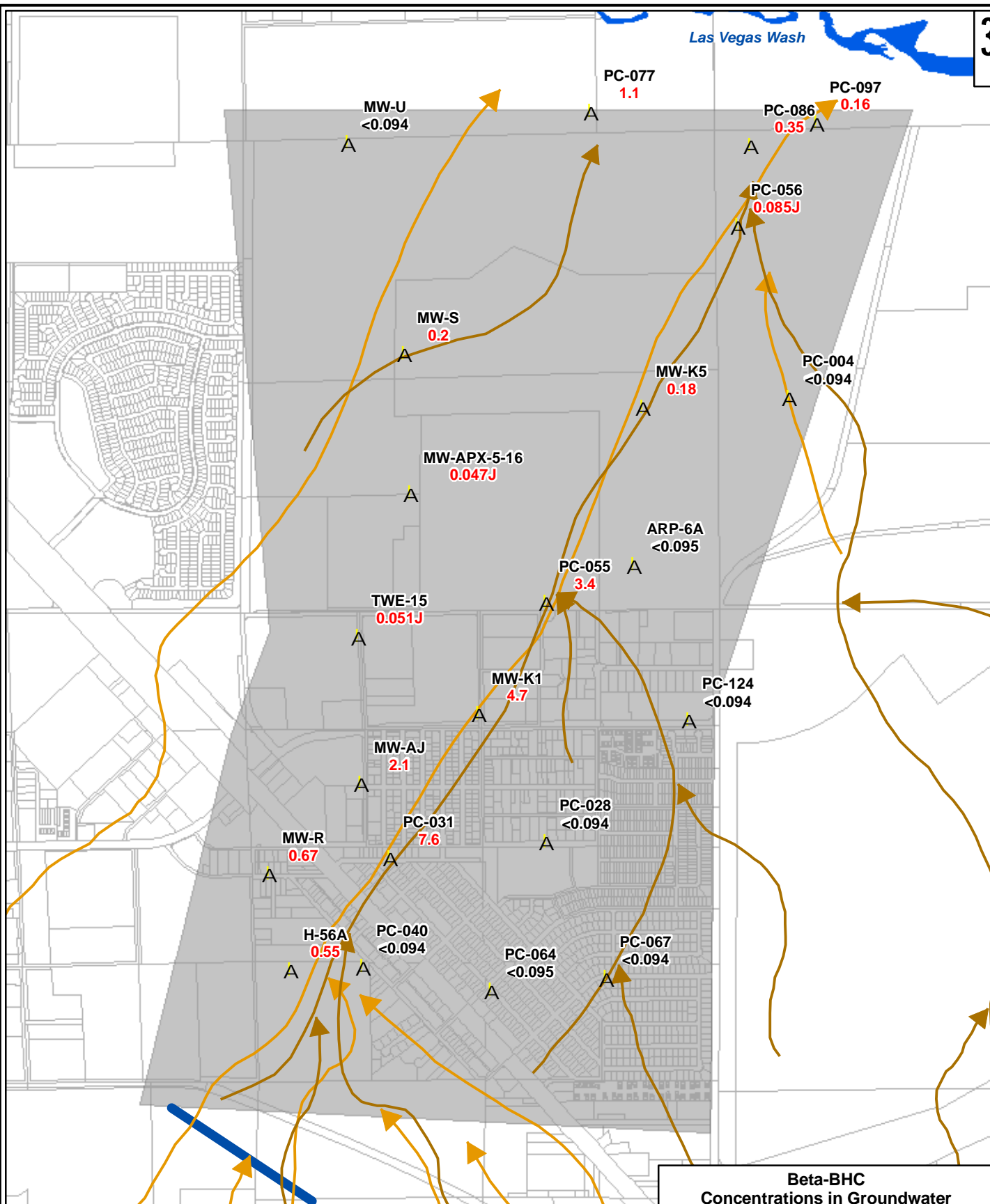
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Figure  
**4-29**

Las Vegas Wash

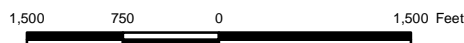


**Legend**

- 0.55  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

**Beta-BHC  
Concentrations in Groundwater  
Downgradient Study Area Investigation  
July 2006**  
Henderson, Nevada



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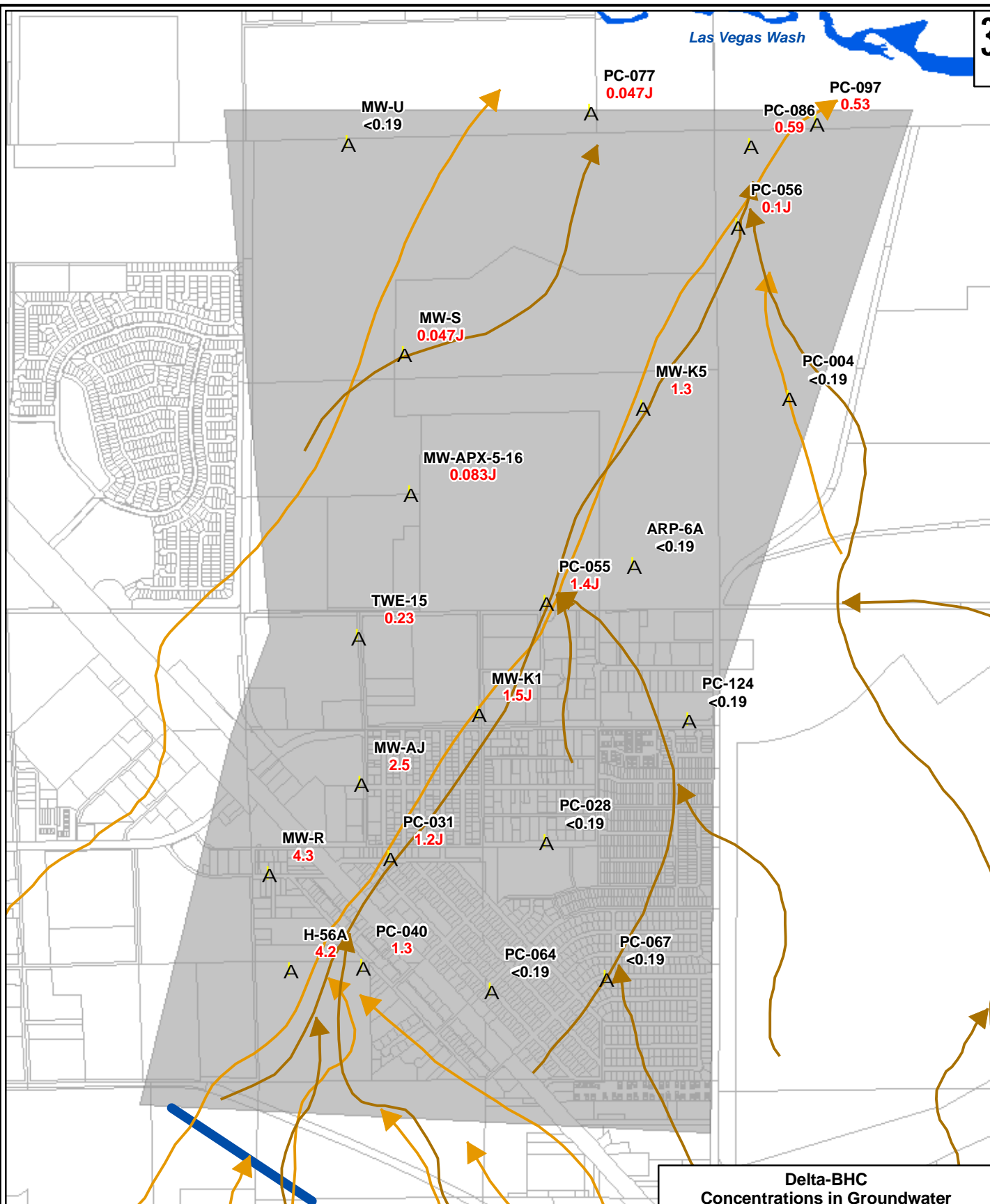
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Figure  
**4-30**

Las Vegas Wash



**Legend**

- 4.2  
A Downgradient Study Area Monitor Well with Chemical Concentration
- ➔ Paleochannel (BRC Interpretation)
- ➔ Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

**Delta-BHC  
Concentrations in Groundwater  
Downgradient Study Area Investigation  
July 2006**  
Henderson, Nevada

1,500 750 0 1,500 Feet

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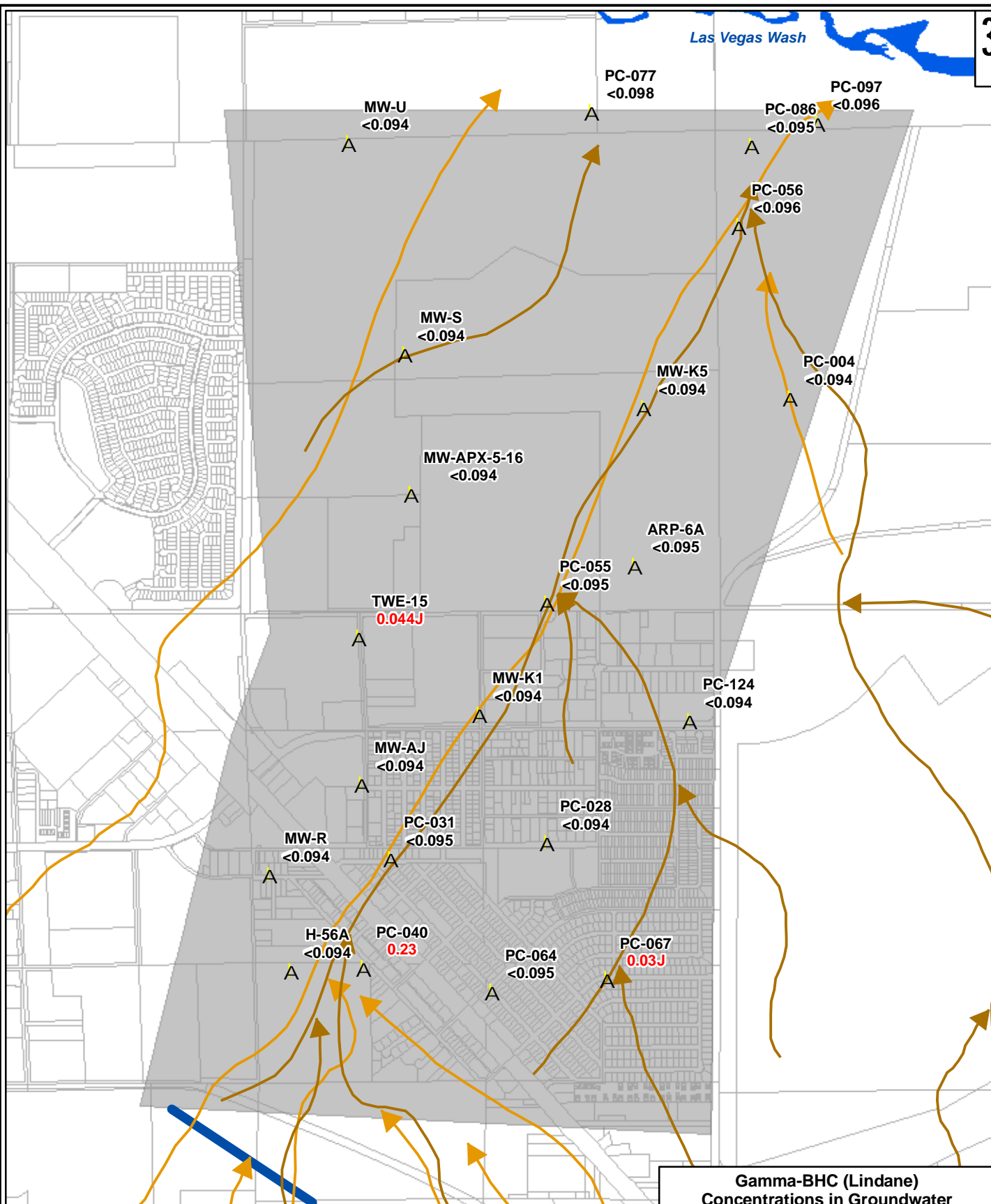
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Figure  
**4-31**

Las Vegas Wash

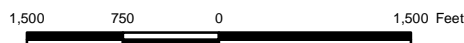


**Legend**

- 0.23
- A** Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTS)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Gamma-BHC (Lindane)  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**  
 Henderson, Nevada



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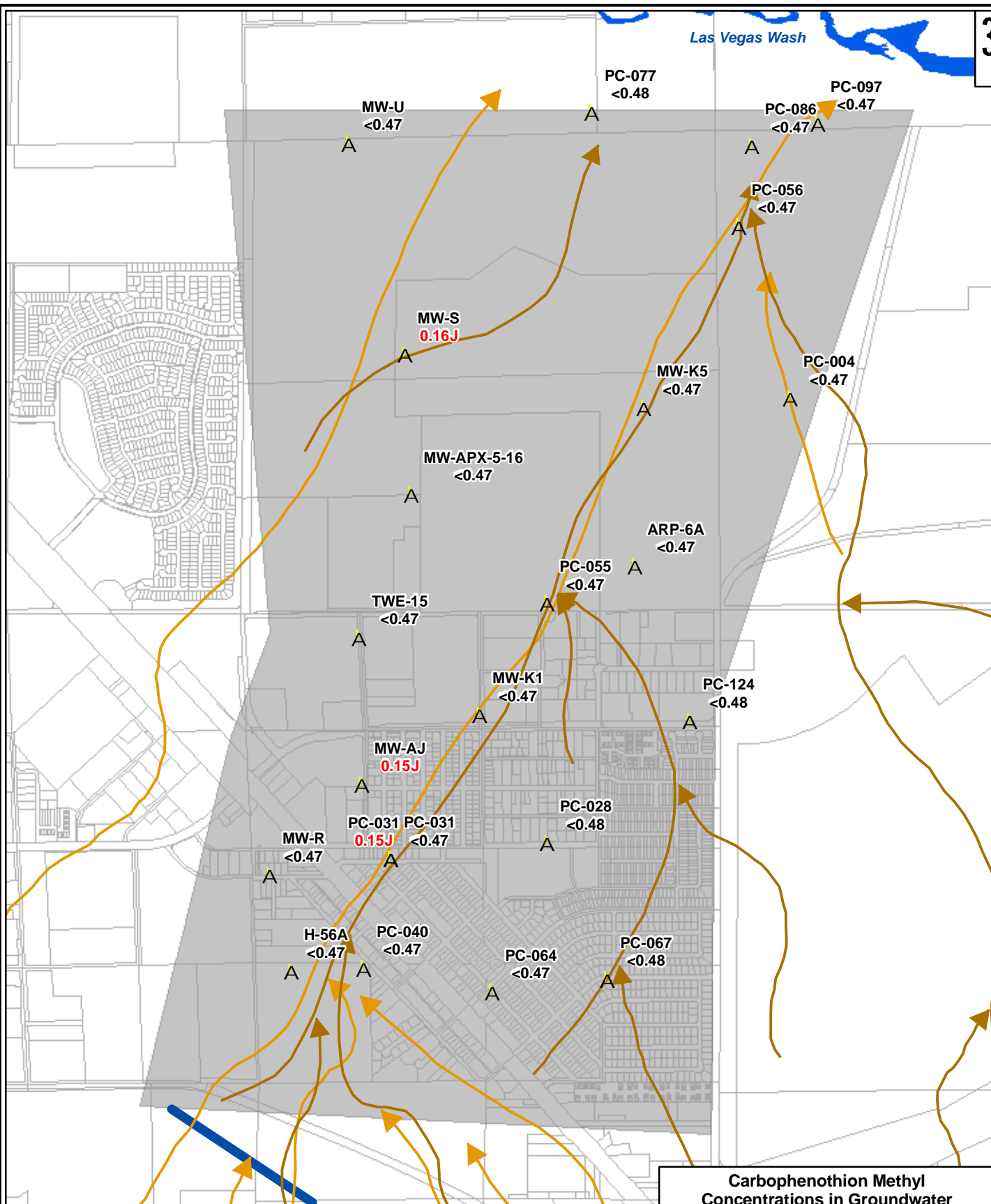
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Figure  
**4-32**



Las Vegas Wash

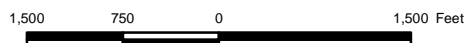


**Legend**

- 0.15J
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange Arrow Paleochannel (BRC Interpretation)
- Yellow Arrow Paleochannel (Tronox Interpretation)
- Blue Line Groundwater Treatment System (GWTS)
- Grey Area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Carbophenothion Methyl  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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 consultants

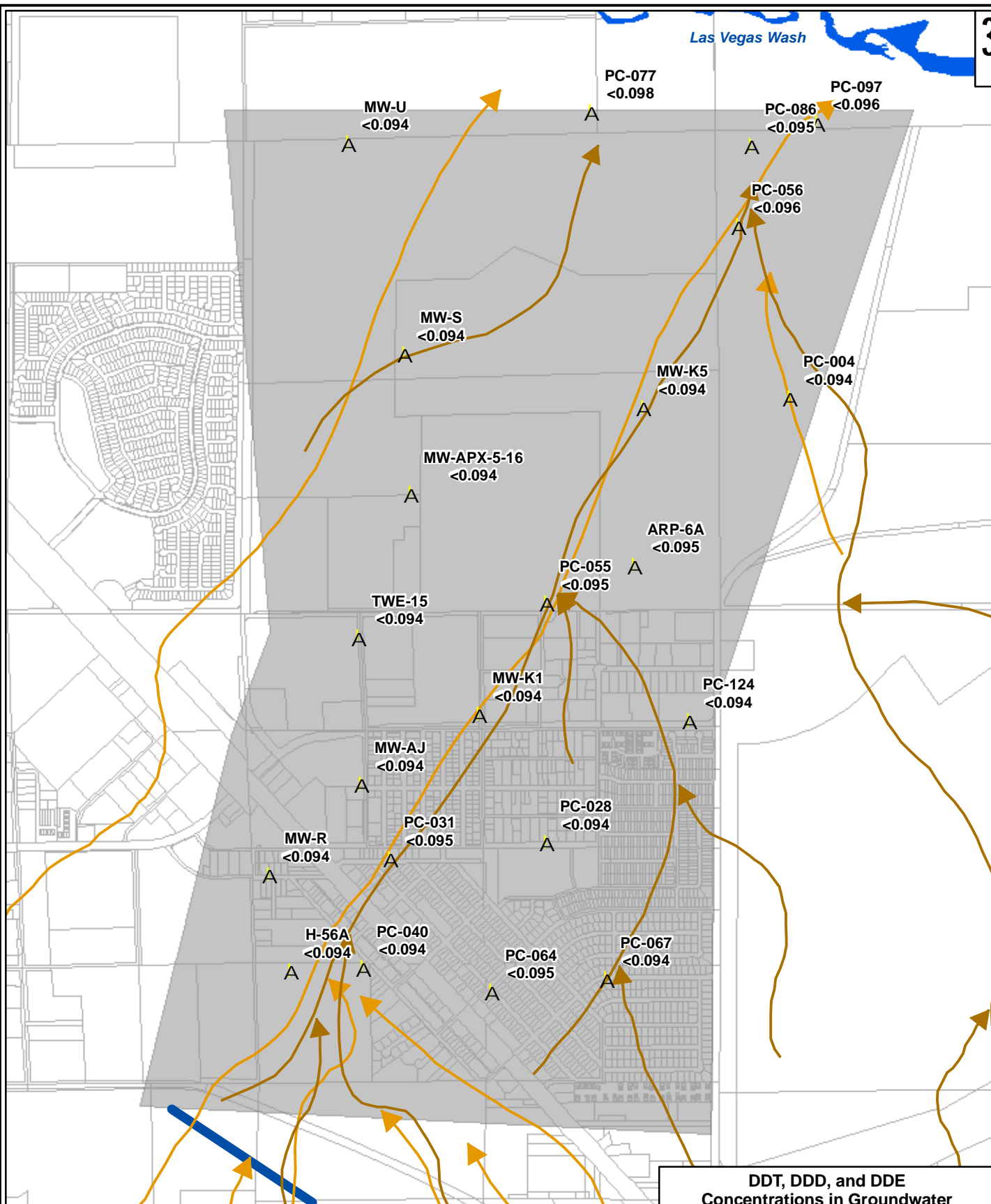
HW0934B  
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Huntington Beach, CA

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Figure  
**4-33**

Las Vegas Wash



**Legend**

**<0.094**

A Downgradient Study Area Monitor Well with Chemical Concentration

Orange Arrow Paleochannel (BRC Interpretation)

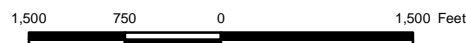
Yellow Arrow Paleochannel (Tronox Interpretation)

Blue Line Groundwater Treatment System (GWTs)

Grey Area Downgradient Study Area

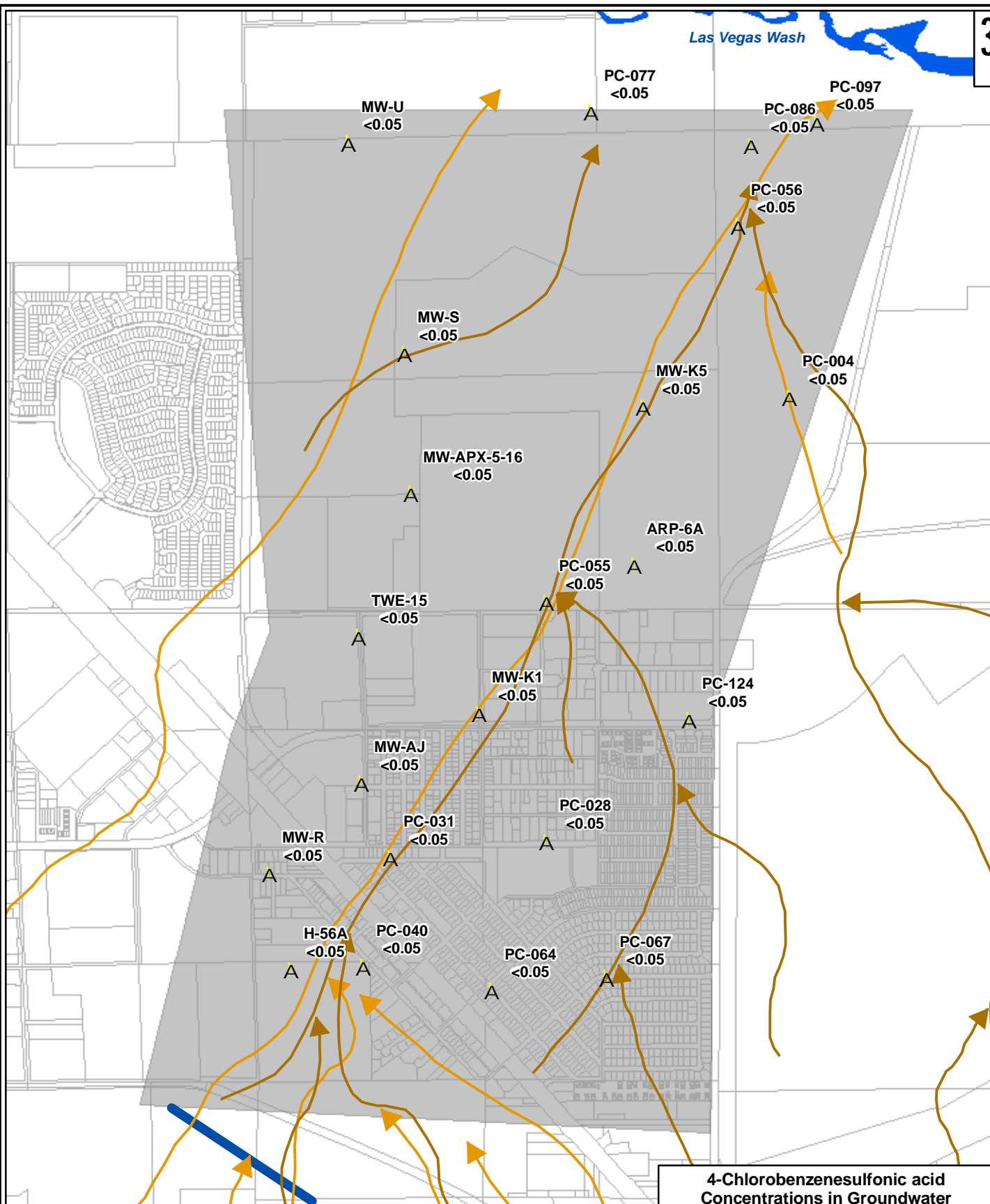
Note: Concentrations in micrograms per liter (ug/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

**DDT, DDD, and DDE  
Concentrations in Groundwater  
Downgradient Study Area Investigation  
July 2006**  
Henderson, Nevada



Geosyntec consultants Huntington Beach, CA	HW0934B	Figure <b>4-34</b>
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Las Vegas Wash



**Legend**

**<0.05**

**A** Downgradient Study Area Monitor Well with Chemical Concentration

**Orange Arrow** Paleochannel (BRC Interpretation)

**Yellow Arrow** Paleochannel (Tronox Interpretation)

**Blue Line** Groundwater Treatment System (GWTS)

**Grey Area** Downgradient Study Area

**Note:** Concentrations in milligrams per liter (mg/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**4-Chlorobenzenesulfonic acid  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**

Henderson, Nevada

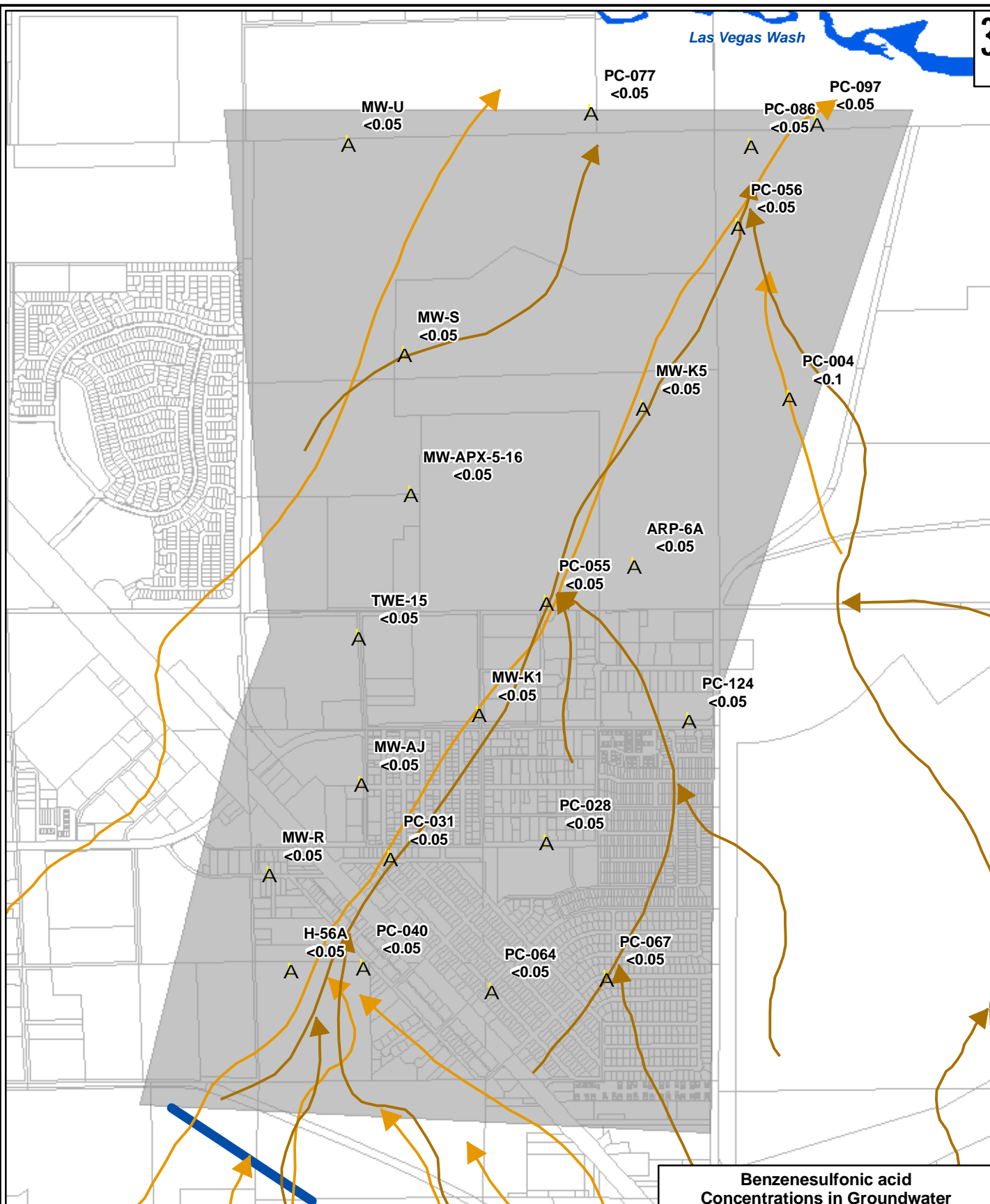
1,500 750 0 1,500 Feet

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HW0934B  
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**Figure  
 4-35**

Las Vegas Wash



**Legend**

**<0.05**

A Downgradient Study Area Monitor Well with Chemical Concentration

Orange Arrow Paleochannel (BRC Interpretation)

Yellow Arrow Paleochannel (Tronox Interpretation)

Blue Line Groundwater Treatment System (GWTs)

Grey Area Downgradient Study Area

Note: Concentrations in milligrams per liter (mg/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Benzenesulfonic acid  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**

Henderson, Nevada

1,500 750 0 1,500 Feet

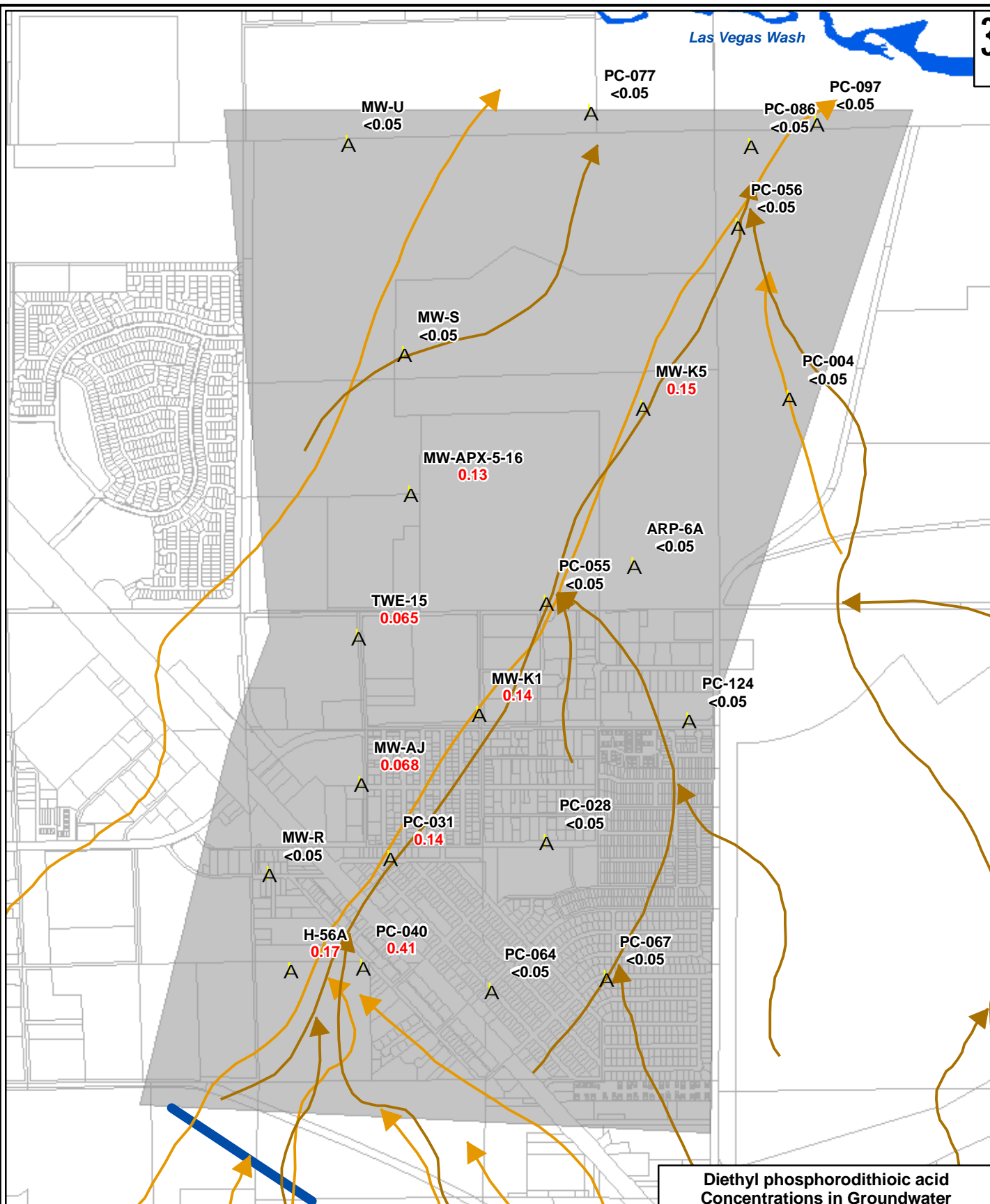
**Geosyntec** consultants  
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HW0934B  
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**Figure  
 4-36**



Las Vegas Wash

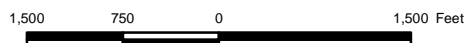


**Legend**

- 0.17  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTS)
- Downgradient Study Area

Note: Concentrations in milligrams per liter (mg/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Diethyl phosphorodithioic acid  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

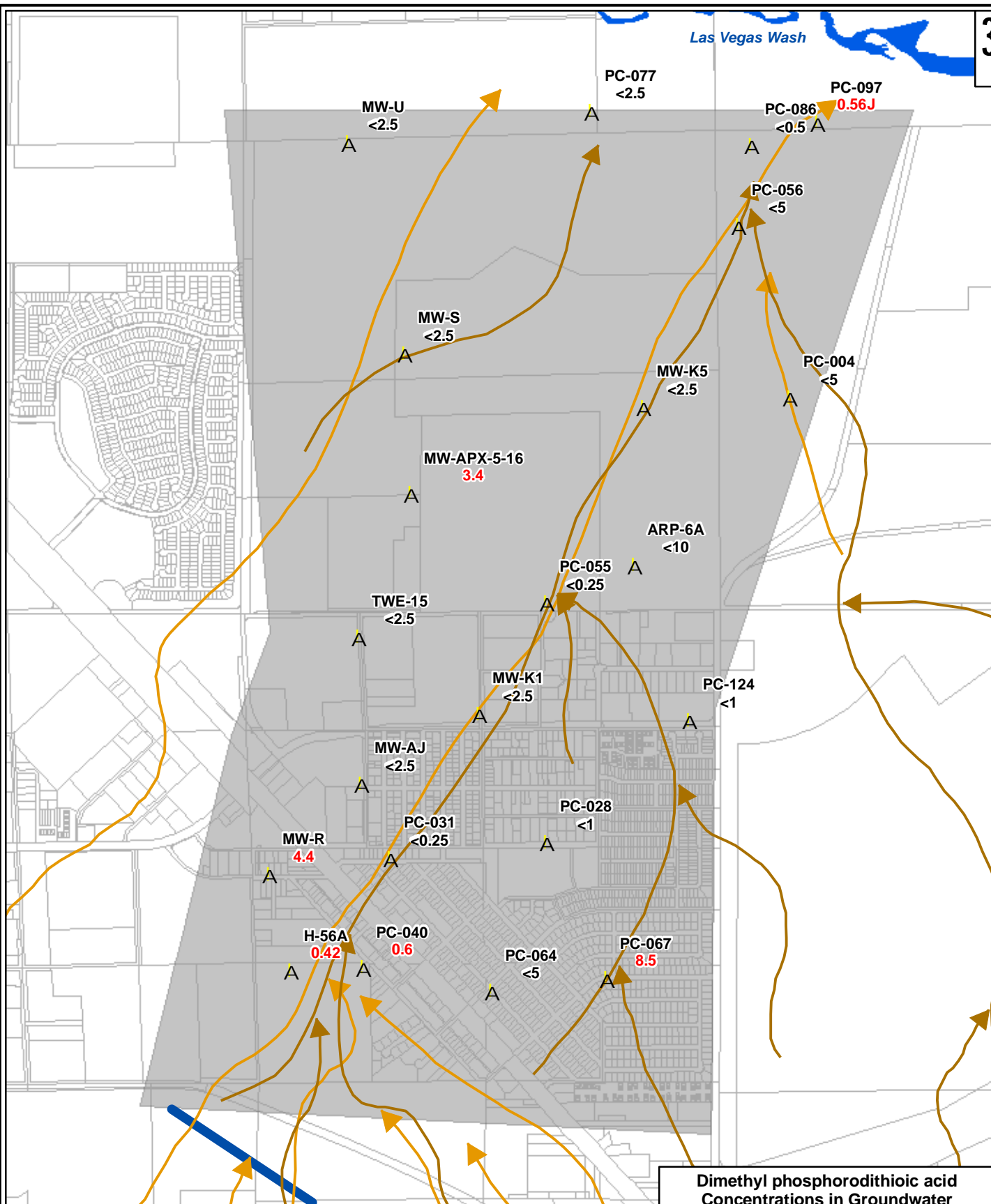


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Figure  
**4-37**

Las Vegas Wash

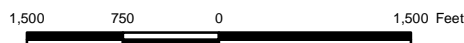


**Legend**

- 0.42
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in milligrams per liter (mg/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Dimethyl phosphorodithioic acid  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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 consultants

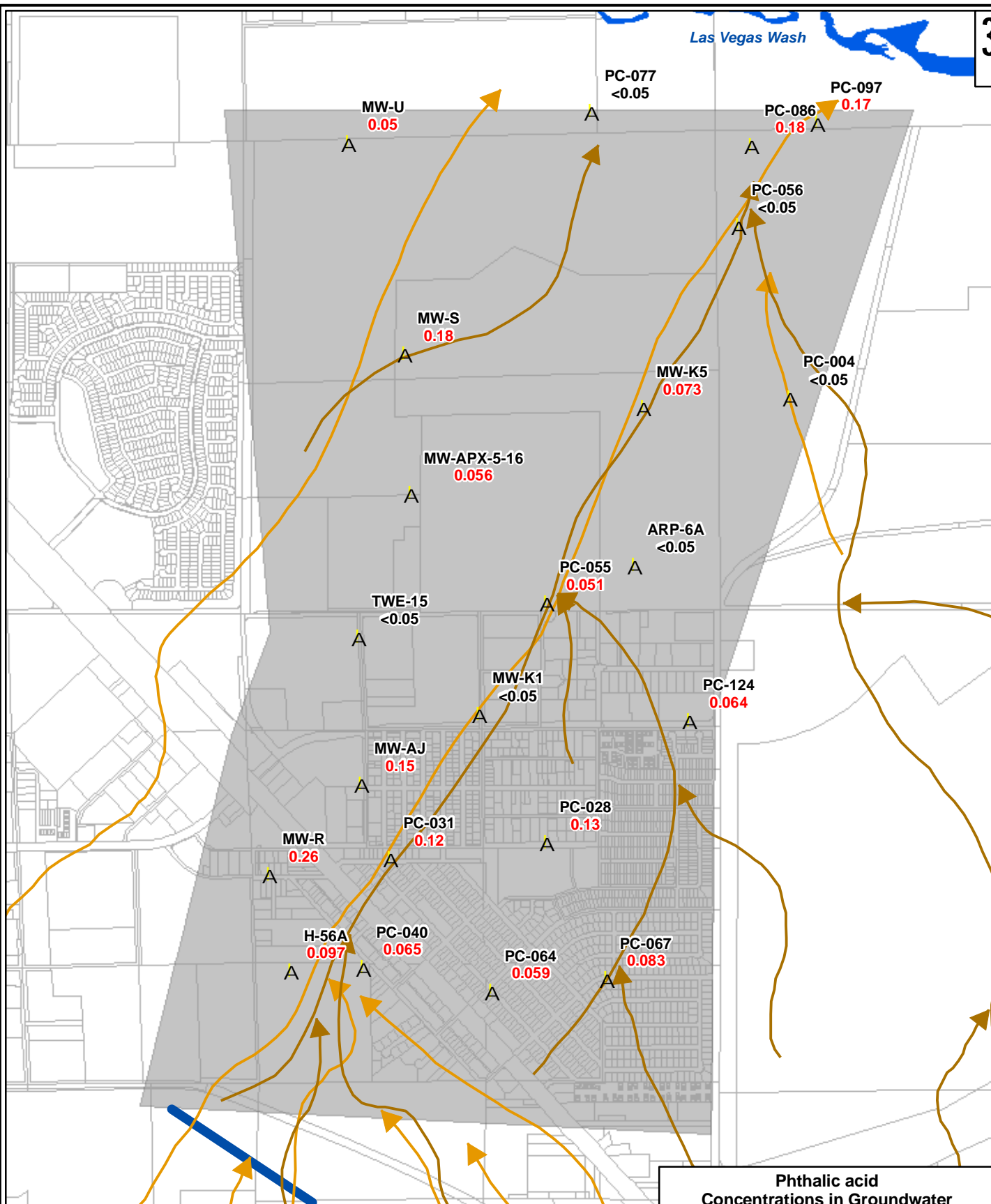
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Huntington Beach, CA

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Figure  
**4-38**

Las Vegas Wash

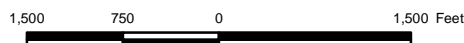


**Legend**

- 0.097
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in milligrams per liter (mg/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Phthalic acid  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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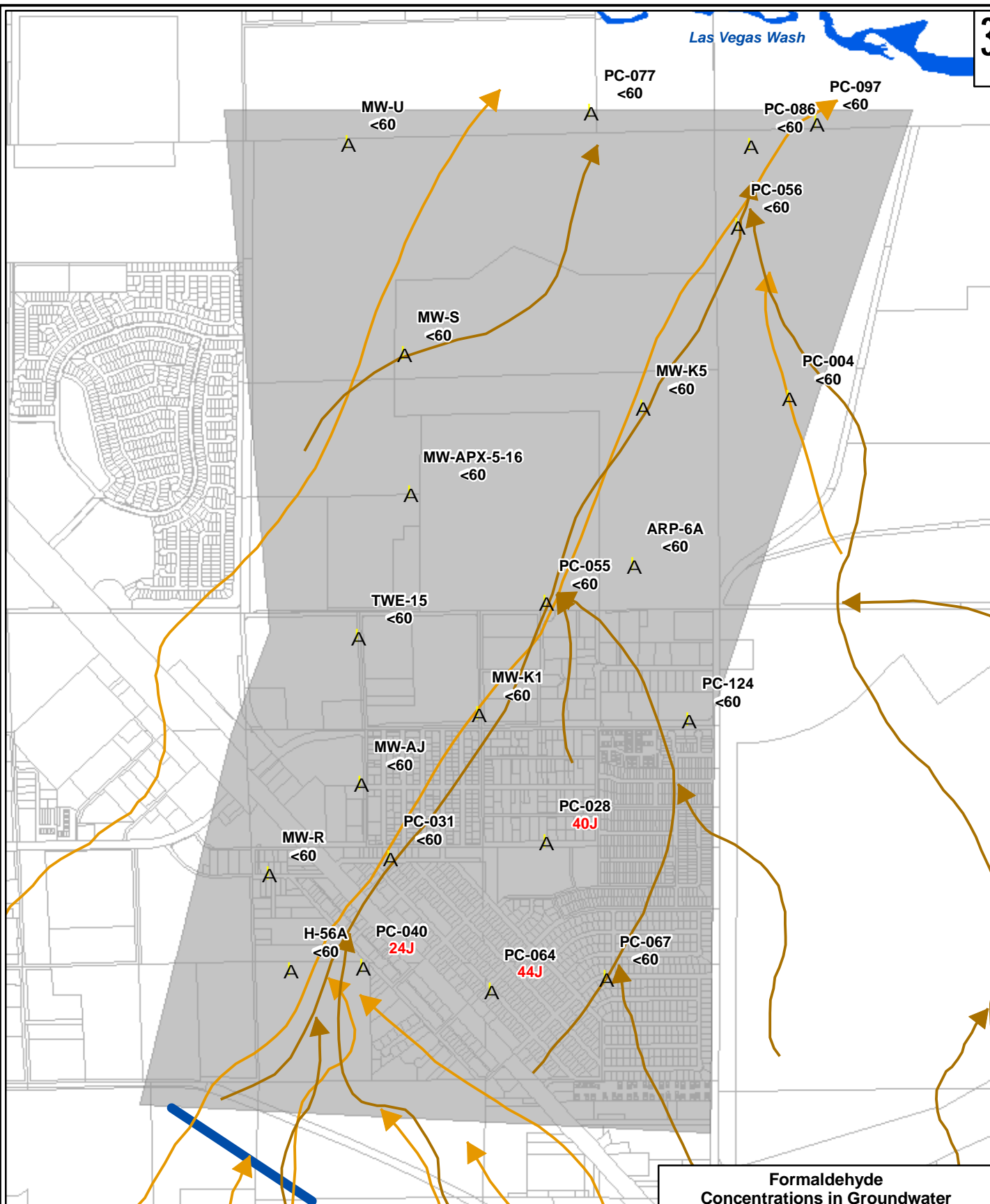
HW0934B  
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Figure  
**4-39**

Las Vegas Wash

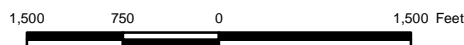


**Legend**

- 24J  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

**Formaldehyde  
Concentrations in Groundwater  
Downgradient Study Area Investigation  
July 2006**  
Henderson, Nevada



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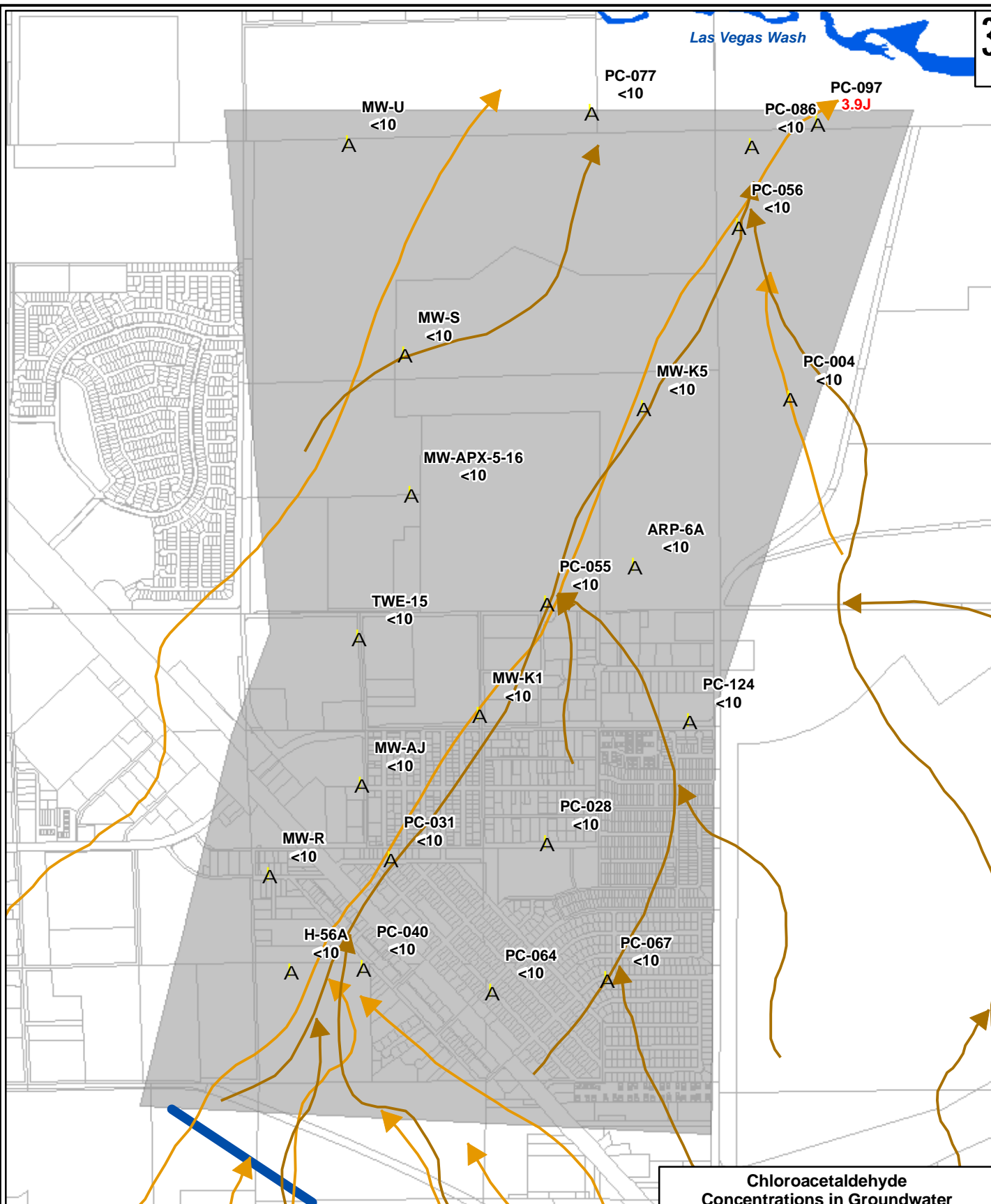
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Figure  
**4-40**



Las Vegas Wash



**Legend**

- 3.9J  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange arrow Paleochannel (BRC Interpretation)
- Yellow arrow Paleochannel (Tronox Interpretation)
- Blue line Groundwater Treatment System (GWTs)
- Grey shaded area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

**Chloroacetaldehyde  
Concentrations in Groundwater  
Downgradient Study Area Investigation  
July 2006**  
Henderson, Nevada

1,500 750 0 1,500 Feet

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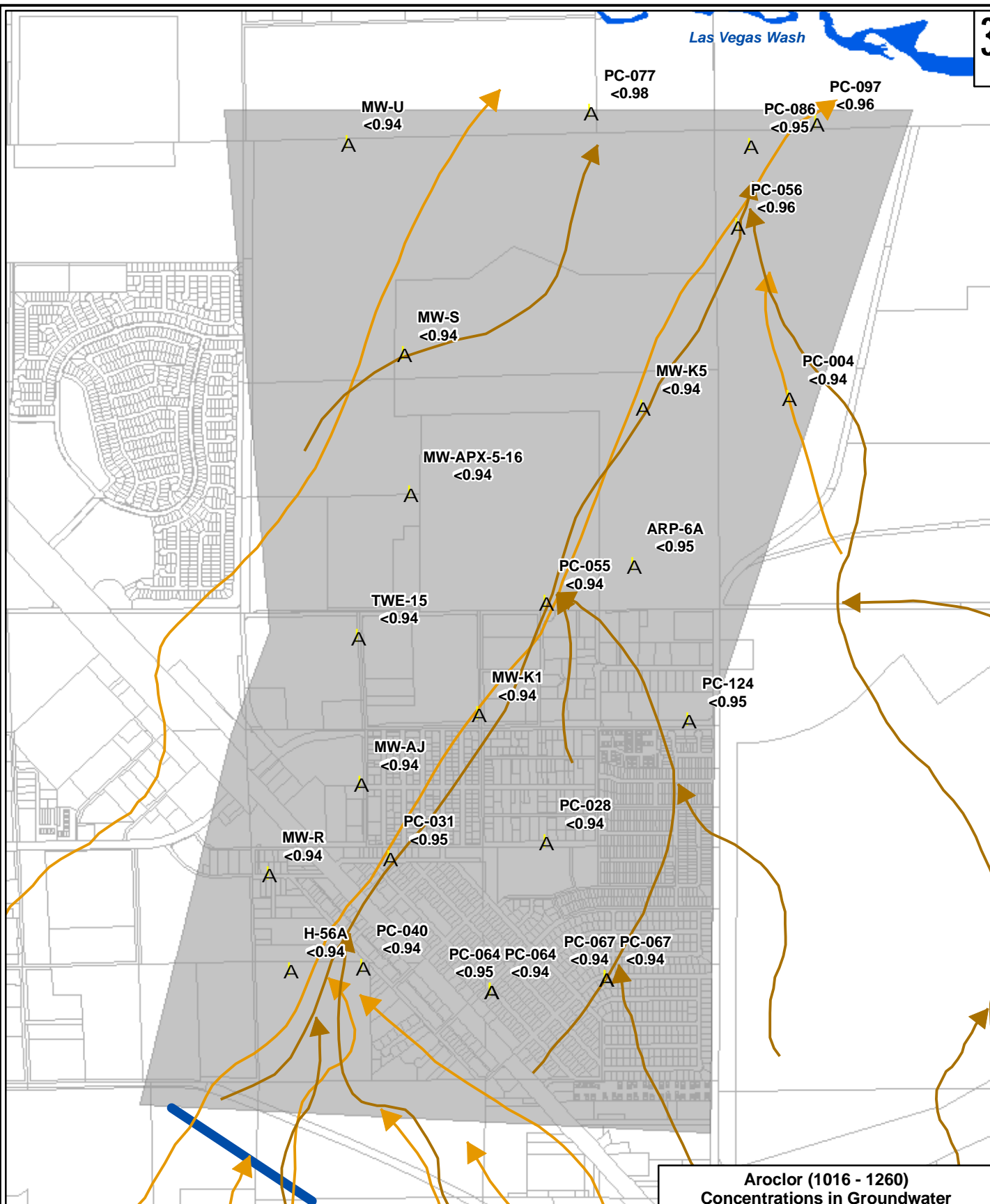
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Figure  
**4-41**

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Las Vegas Wash



**Legend**

**<0.94**

A Downgradient Study Area Monitor Well with Chemical Concentration

Orange arrow Paleochannel (BRC Interpretation)

Yellow arrow Paleochannel (Tronox Interpretation)

Blue line Groundwater Treatment System (GWTs)

Grey shaded area Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Aroclor (1016 - 1260)**  
**Concentrations in Groundwater**  
**Downgradient Study Area Investigation**  
**July 2006**  
 Henderson, Nevada

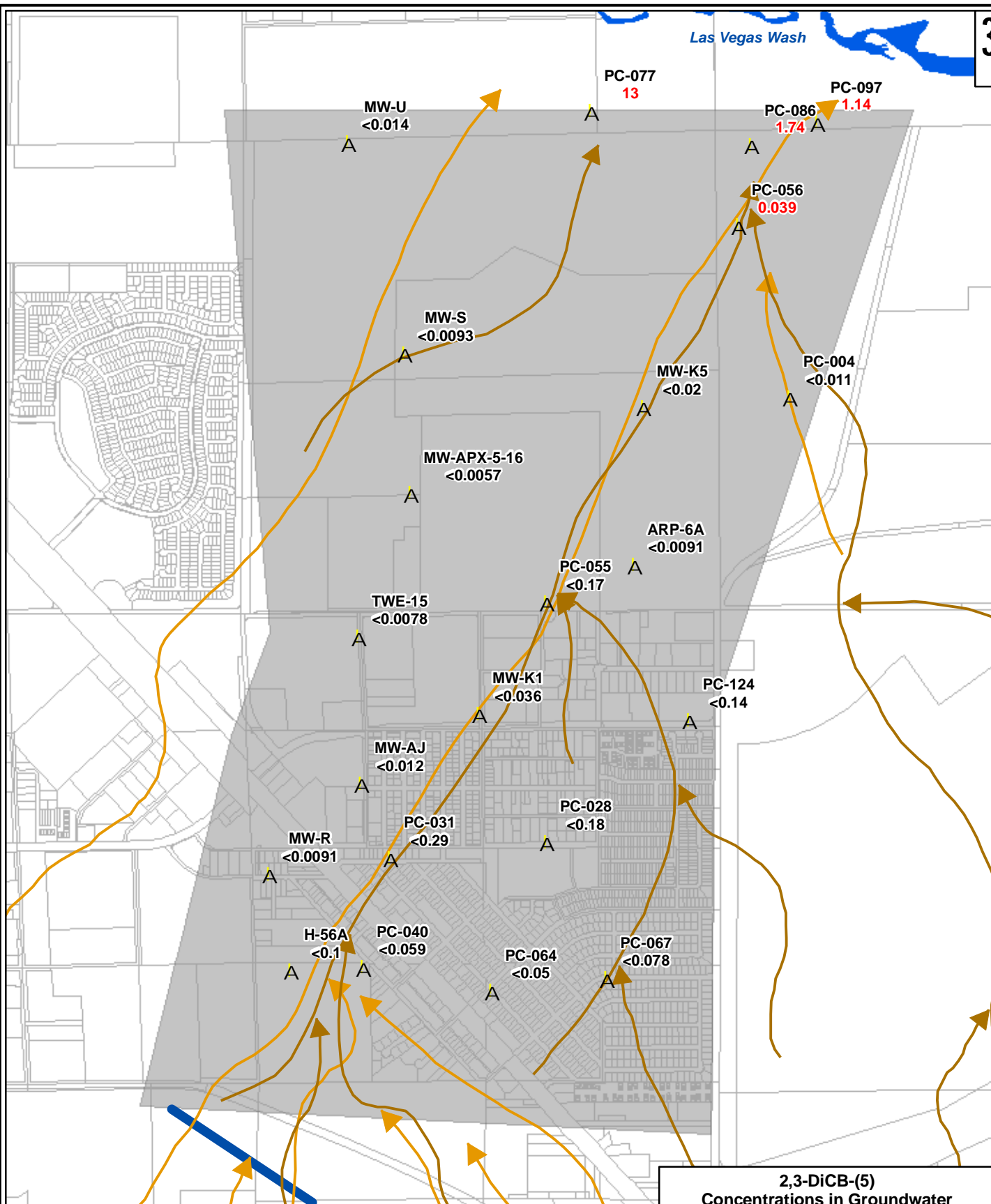
1,500 750 0 1,500 Feet

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**Figure**  
**4-42**

Las Vegas Wash

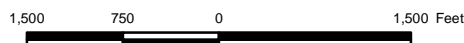


**Legend**

- 0.039
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTS)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**2,3-DiCB-(5)  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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 consultants

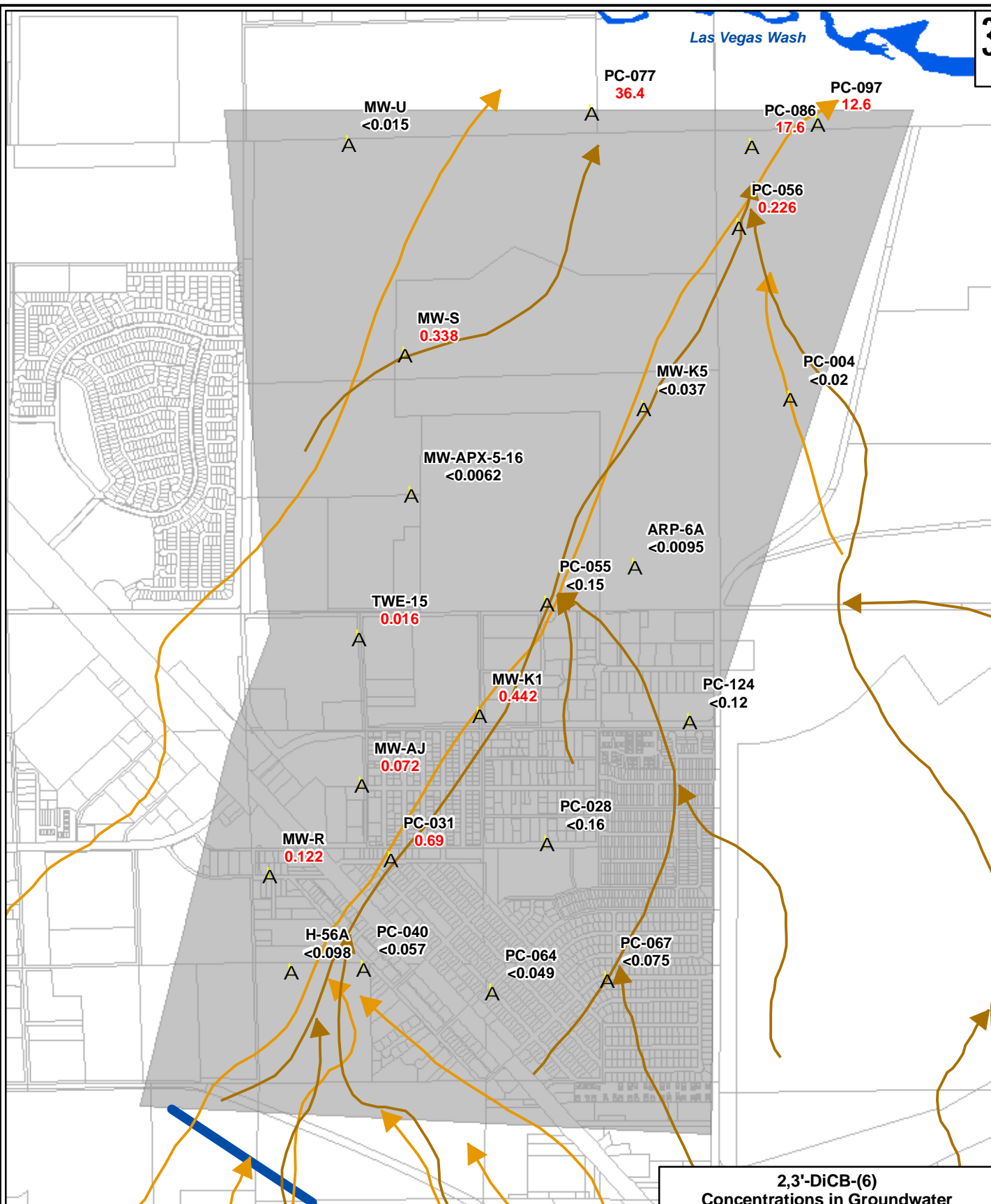
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Figure  
**4-43**

Las Vegas Wash

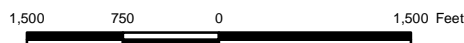


**Legend**

- 0.122
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTS)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**2,3'-DiCB-(6)  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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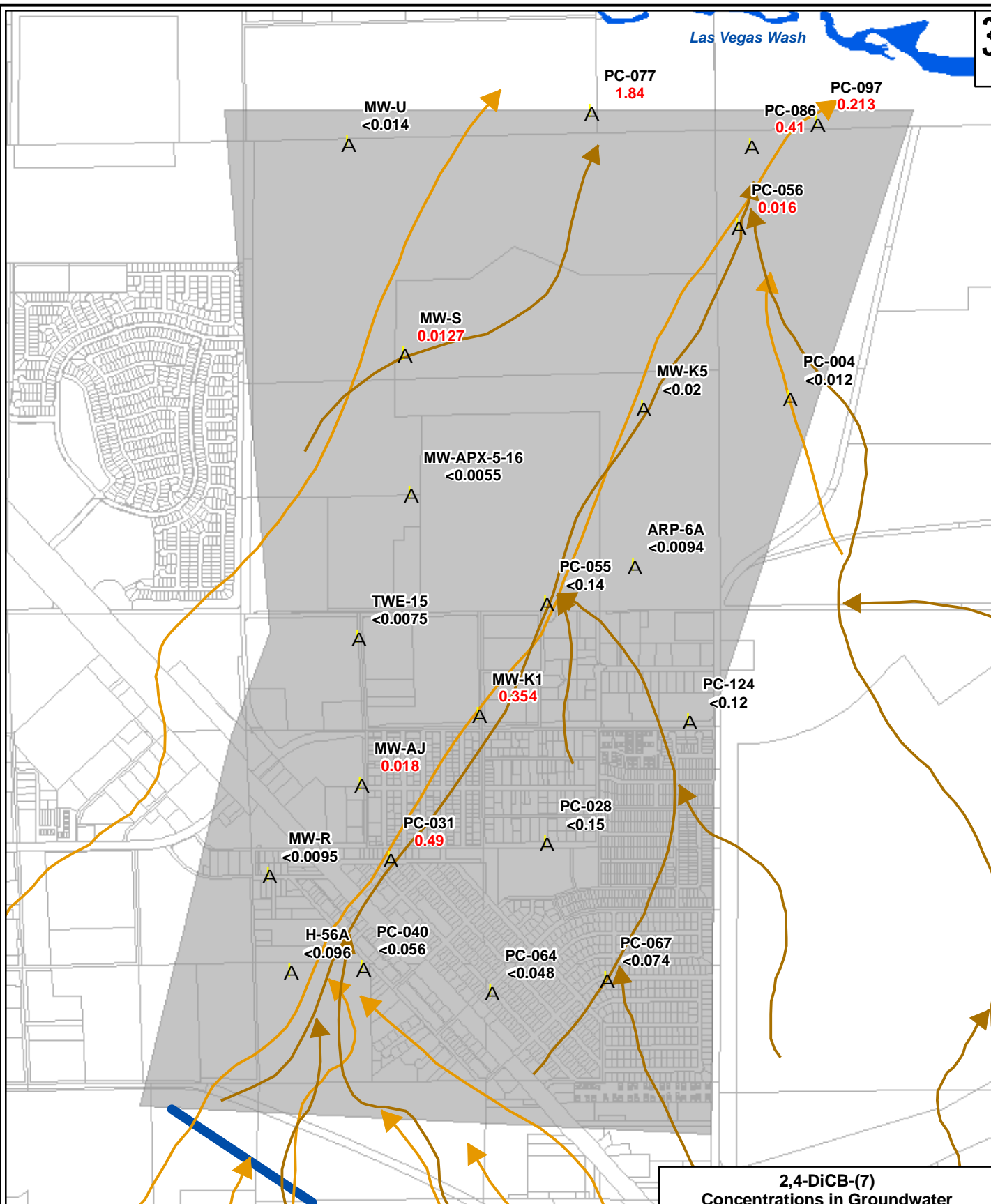
Huntington Beach, CA

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Figure  
**4-44**



Las Vegas Wash



**Legend**

- 0.49  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

**2,4-DiCB-(7)  
Concentrations in Groundwater  
Downgradient Study Area Investigation  
July 2006**  
Henderson, Nevada

1,500 750 0 1,500 Feet

**Geosyntec**  
consultants

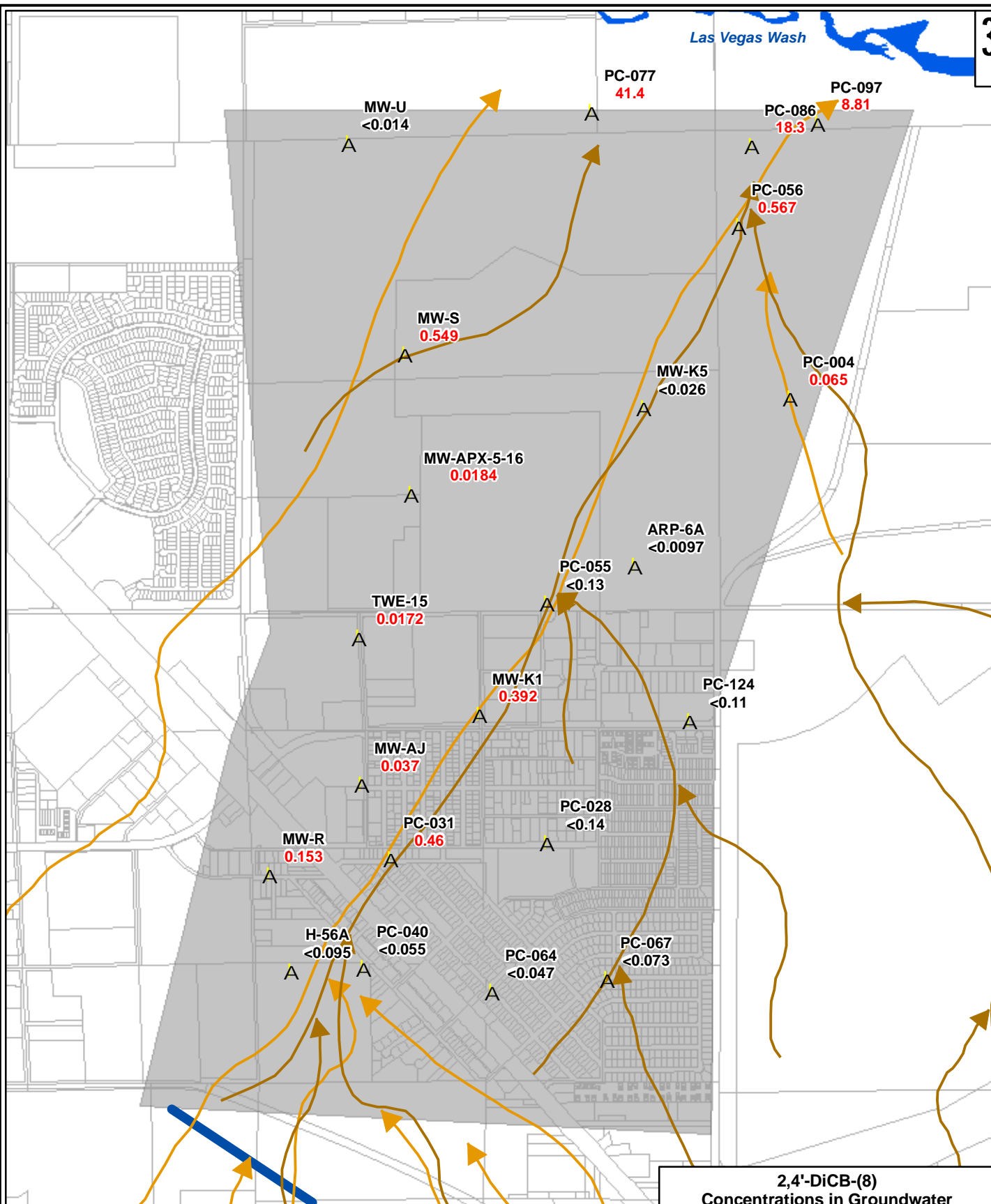
HW0934B  
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Figure  
**4-45**

Las Vegas Wash



**Legend**

- 0.153
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTS)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**2,4'-DiCB-(8)  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

1,500 750 0 1,500 Feet

**Geosyntec**  
 consultants

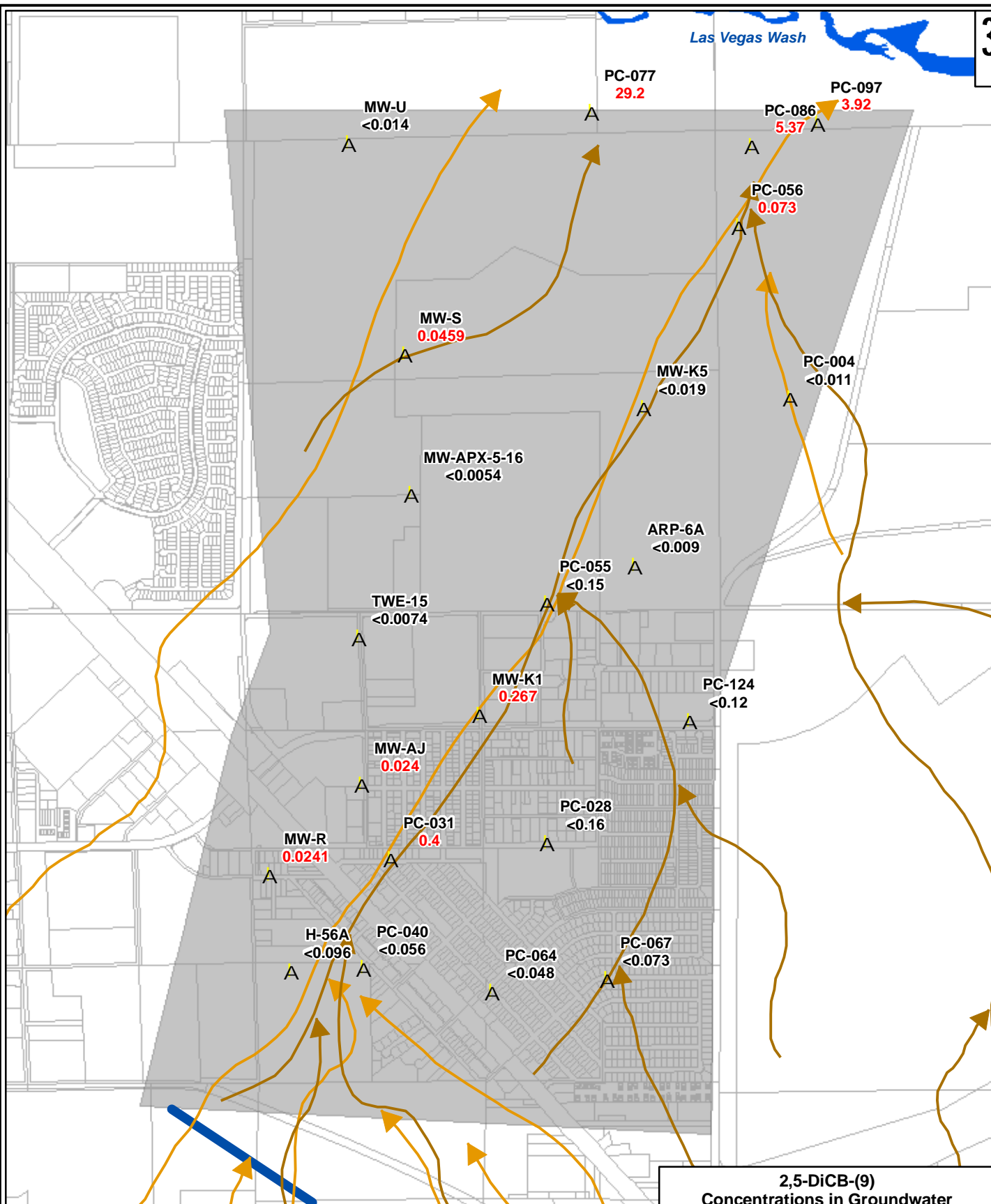
HW0934B  
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Huntington Beach, CA

30-Mar-2007

Figure  
**4-46**

Las Vegas Wash



**Legend**

- 0.0241
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**2,5-DiCB-(9)  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

1,500 750 0 1,500 Feet

**Geosyntec**  
 consultants

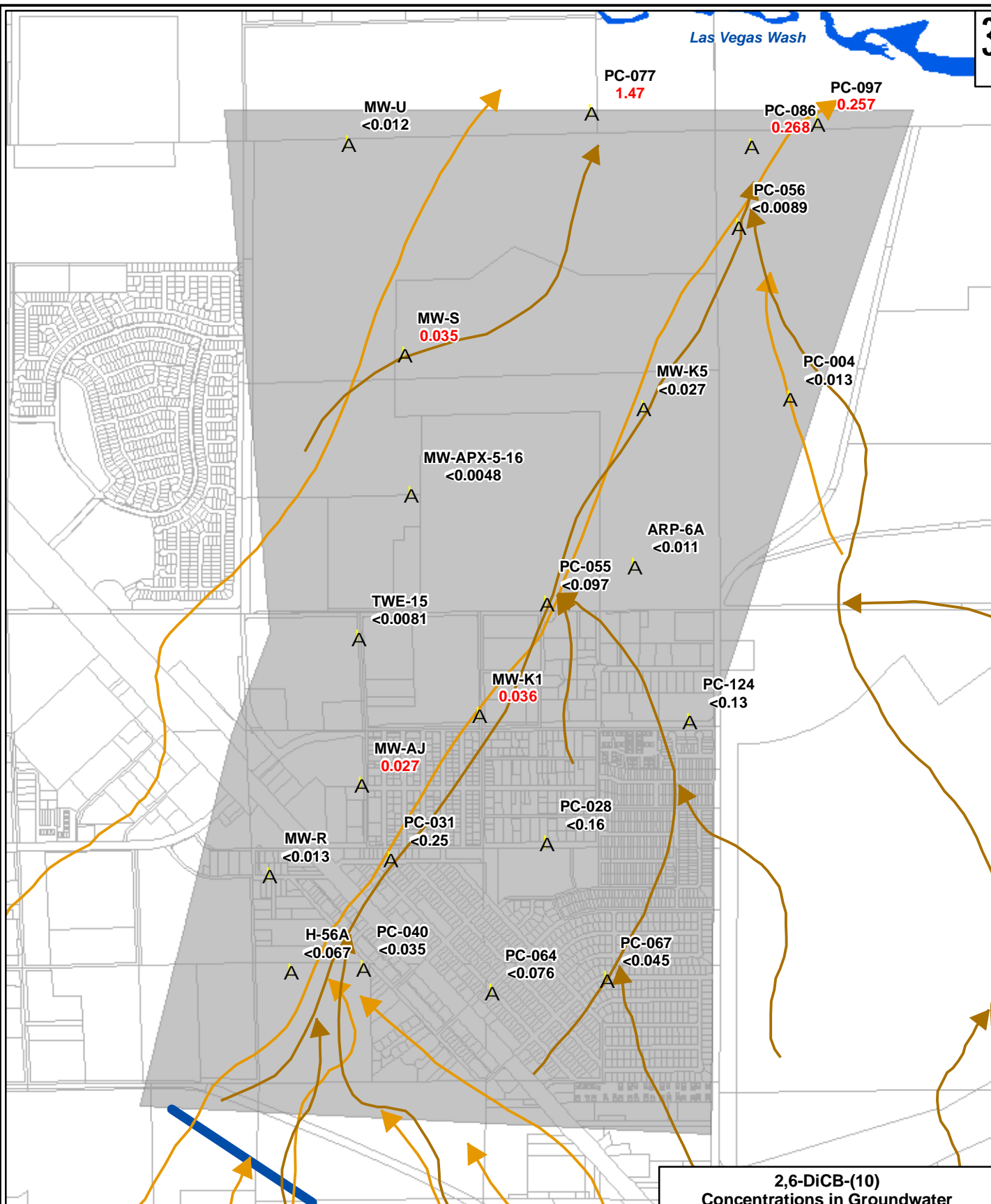
HW0934B  
 Revision: 01

Huntington Beach, CA

30-Mar-2007

Figure  
**4-47**

Las Vegas Wash

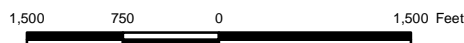


**Legend**

- 0.027
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTS)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**2,6-DiCB(10)  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



**Geosyntec**  
 consultants

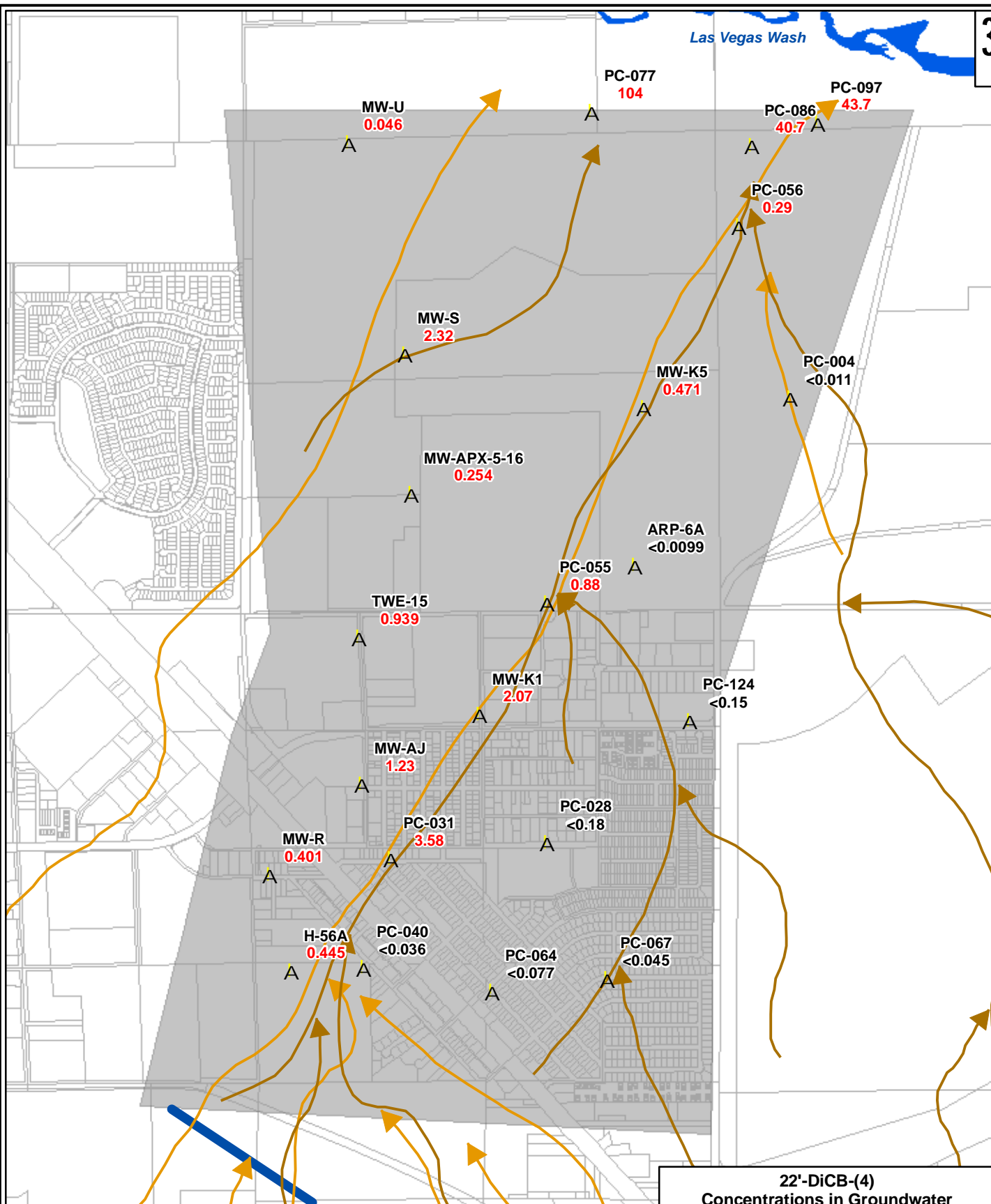
HW0934B  
 Revision: 01

Huntington Beach, CA

30-Mar-2007

Figure  
**4-48**

Las Vegas Wash

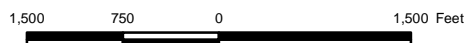


**Legend**

- 0.445
- A Downgradient Study Area Monitor Well with Chemical Concentration
- ▶ Paleochannel (BRC Interpretation)
- ▶ Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**22'-DiCB-(4)**  
**Concentrations in Groundwater**  
**Downgradient Study Area Investigation**  
**July 2006**  
 Henderson, Nevada



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HW0934B

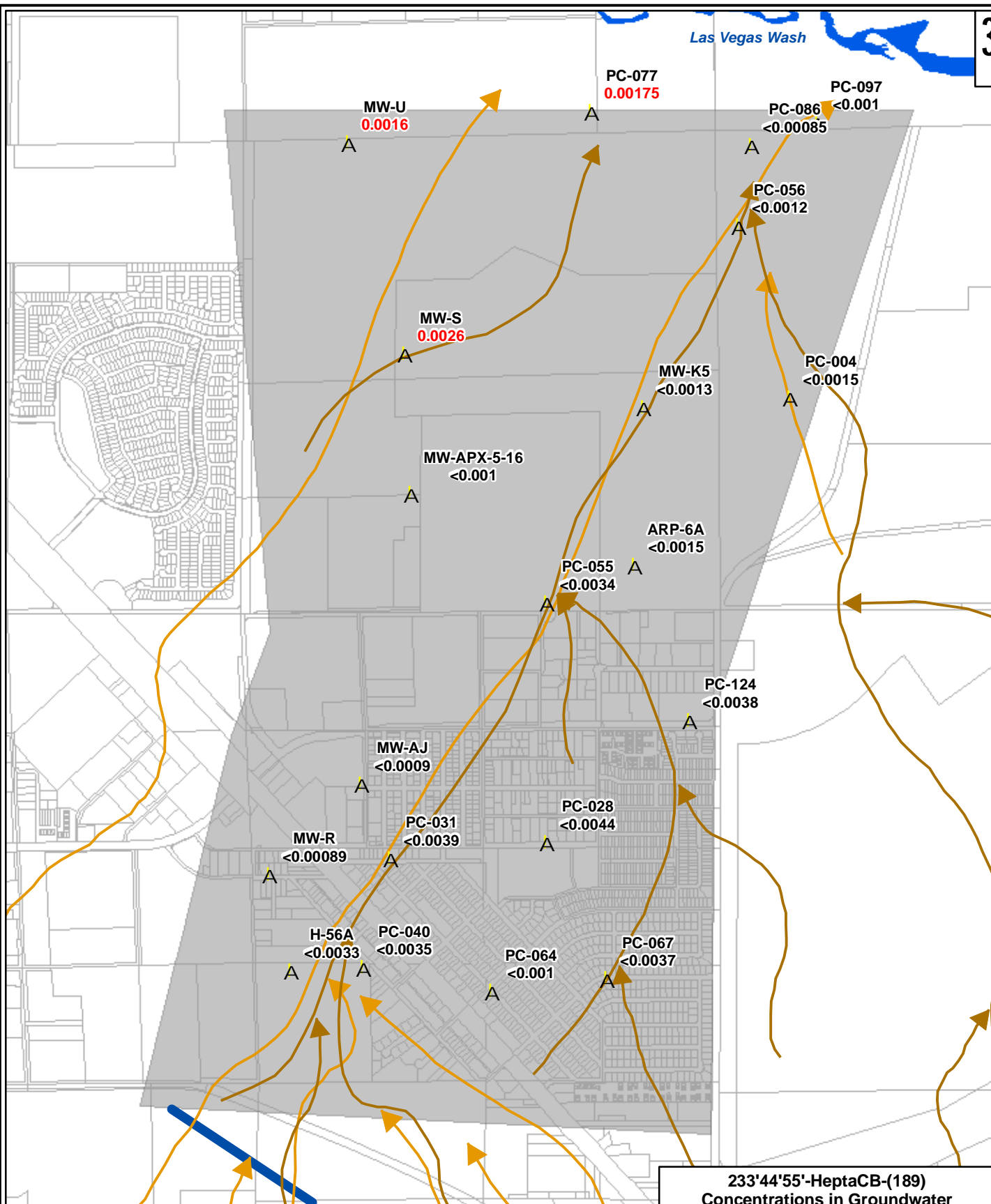
Revision: 01

30-Mar-2007

Figure  
**4-49**



Las Vegas Wash

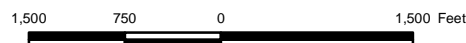


**Legend**

- 0.0026
- A** Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**233'44'55'-HeptaCB-(189)  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**  
 Henderson, Nevada



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 consultants

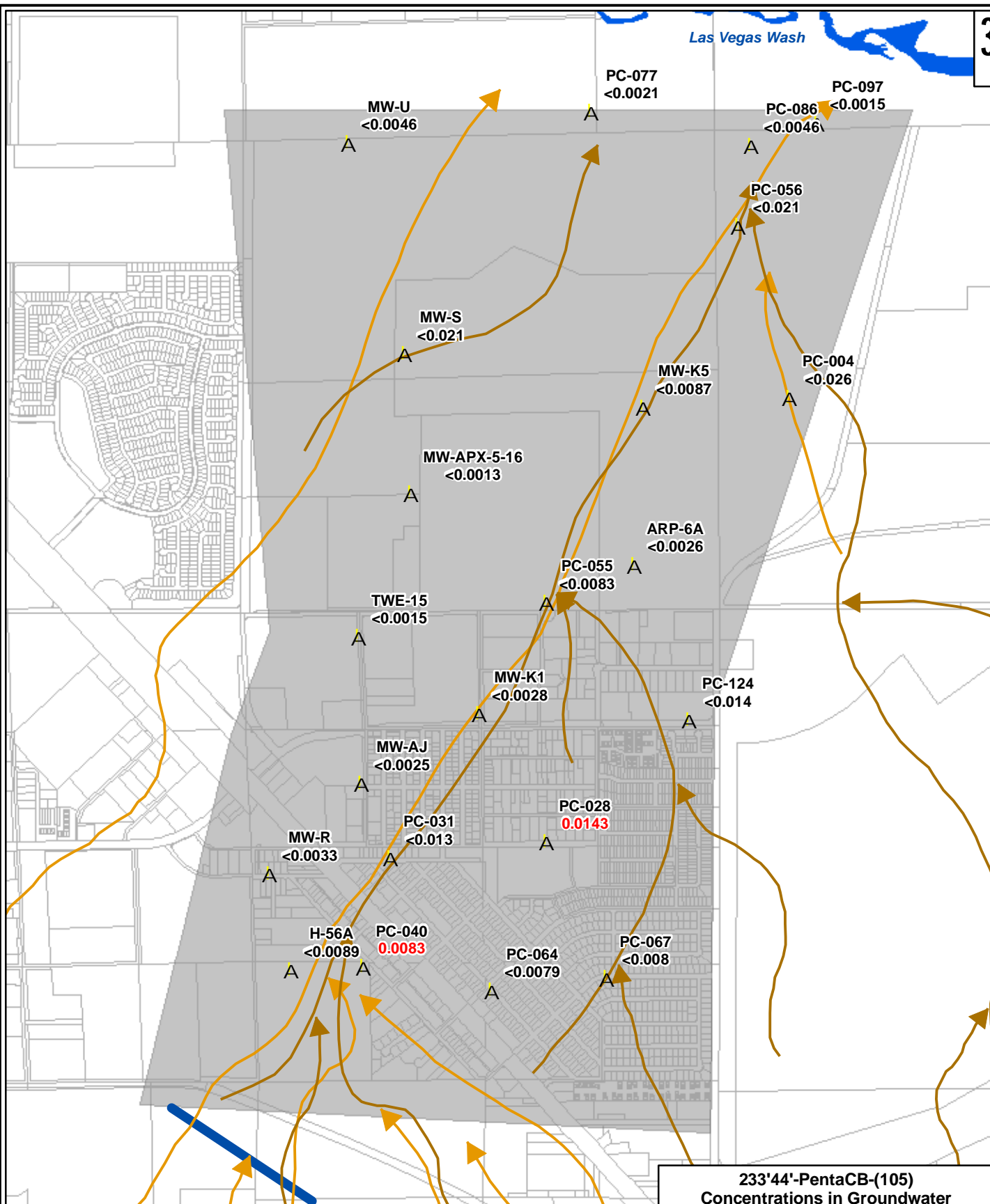
HW0934B  
 Revision: 01

Huntington Beach, CA

30-Mar-2007

Figure  
**4-50**

Las Vegas Wash



**Legend**

0.0083

A Downgradient Study Area Monitor Well with Chemical Concentration

▶ Paleochannel (BRC Interpretation)

▶ Paleochannel (Tronox Interpretation)

— Groundwater Treatment System (GWTS)

■ Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**233'44'-PentaCB-(105)**  
**Concentrations in Groundwater**  
**Downgradient Study Area Investigation**  
**July 2006**  
 Henderson, Nevada

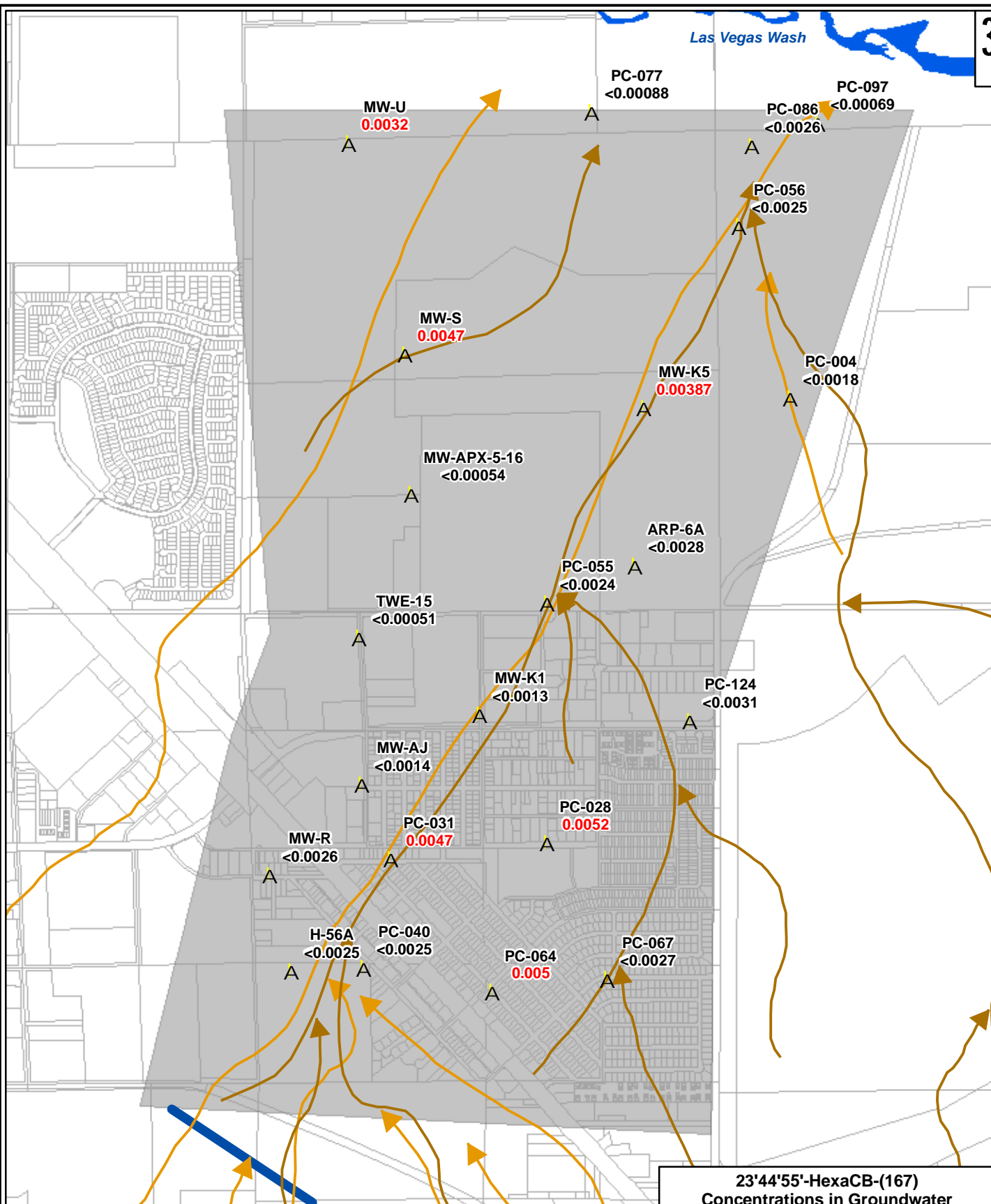
1,500 750 0 1,500 Feet

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 Huntington Beach, CA

HW0934B  
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**Figure**  
**4-51**

Las Vegas Wash

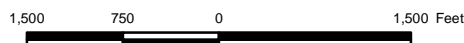


**Legend**

- 0.005
- A** Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**23'44'55'-HexaCB-(167)**  
**Concentrations in Groundwater**  
**Downgradient Study Area Investigation**  
**July 2006**  
 Henderson, Nevada



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 consultants

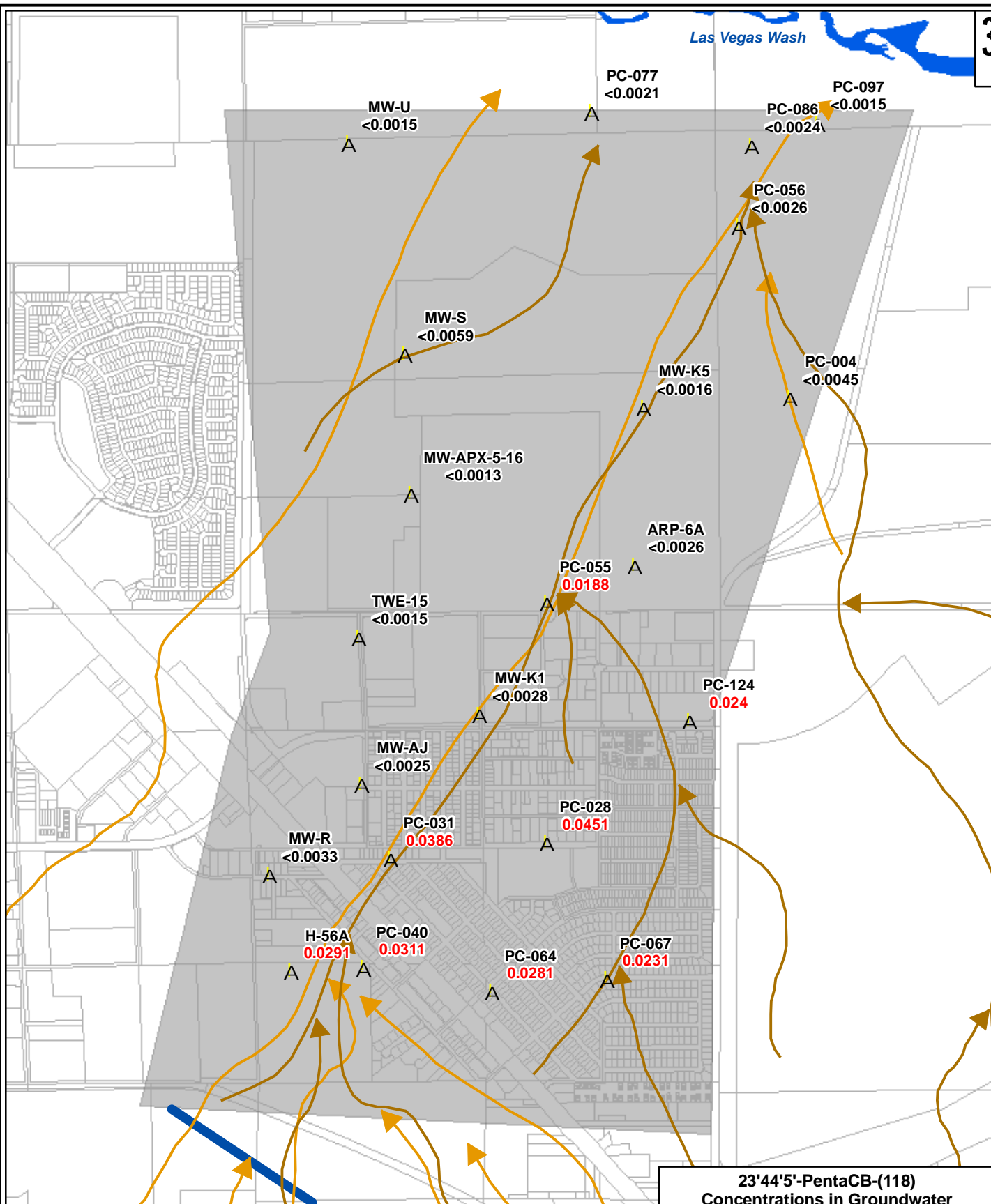
HW0934B  
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Huntington Beach, CA

30-Mar-2007

Figure  
**4-52**

Las Vegas Wash

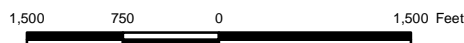


**Legend**

- 0.0291
- A Downgradient Study Area Monitor Well with Chemical Concentration
- ▶ Paleochannel (BRC Interpretation)
- ▶ Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**23'44'5"-PentaCB-(118)**  
**Concentrations in Groundwater**  
**Downgradient Study Area Investigation**  
**July 2006**  
 Henderson, Nevada



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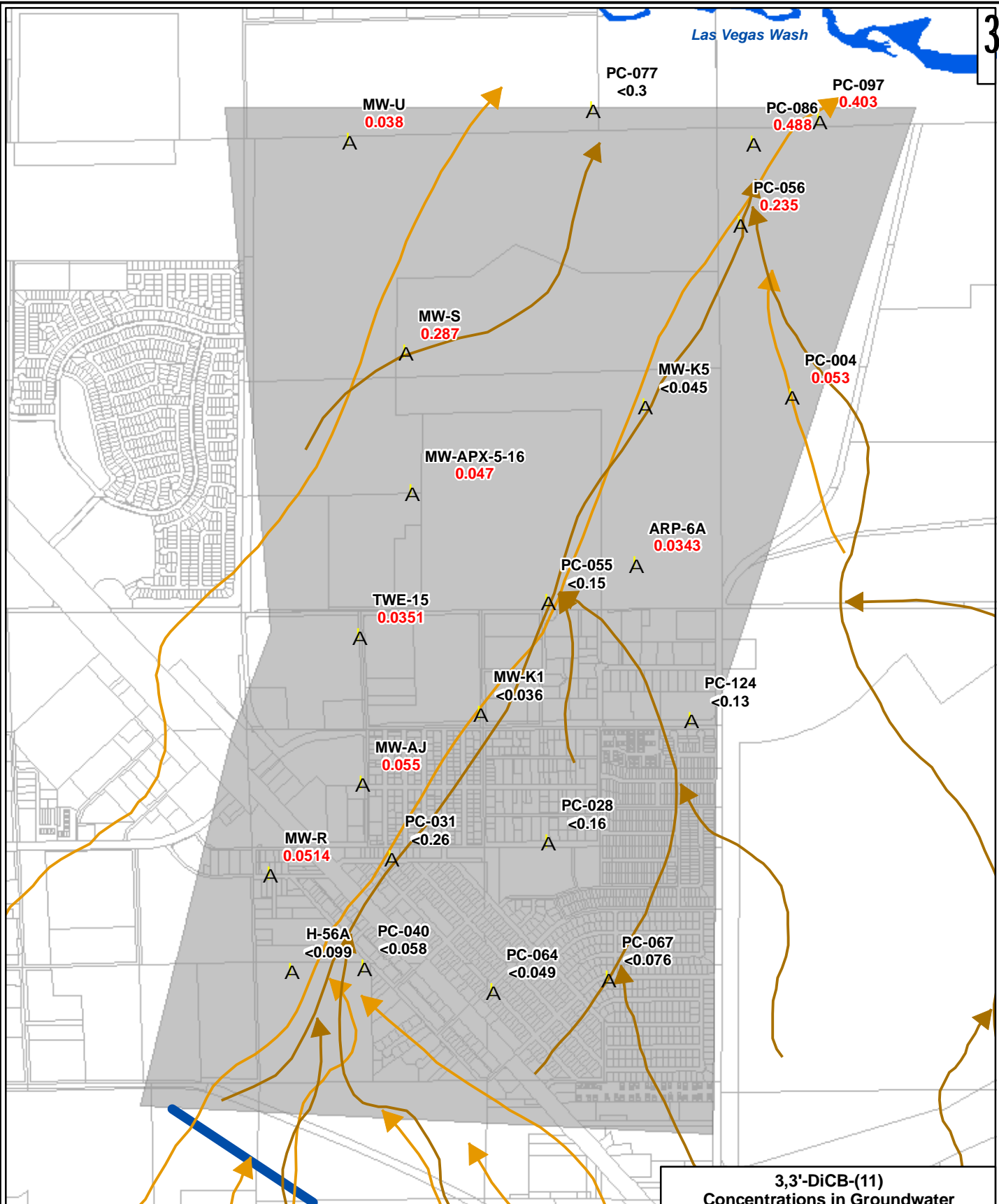
HW0934B  
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30-Mar-2007

Figure  
**4-53**

Las Vegas Wash



**Legend**

0.0514

A Downgradient Study Area Monitor Well with Chemical Concentration

Orange Arrow Paleochannel (BRC Interpretation)

Yellow Arrow Paleochannel (Tronox Interpretation)

Blue Line Groundwater Treatment System (GWTS)

Grey Area Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**3,3'-DiCB-(11)**  
**Concentrations in Groundwater**  
**Downgradient Study Area Investigation**  
**July 2006**  
 Henderson, Nevada

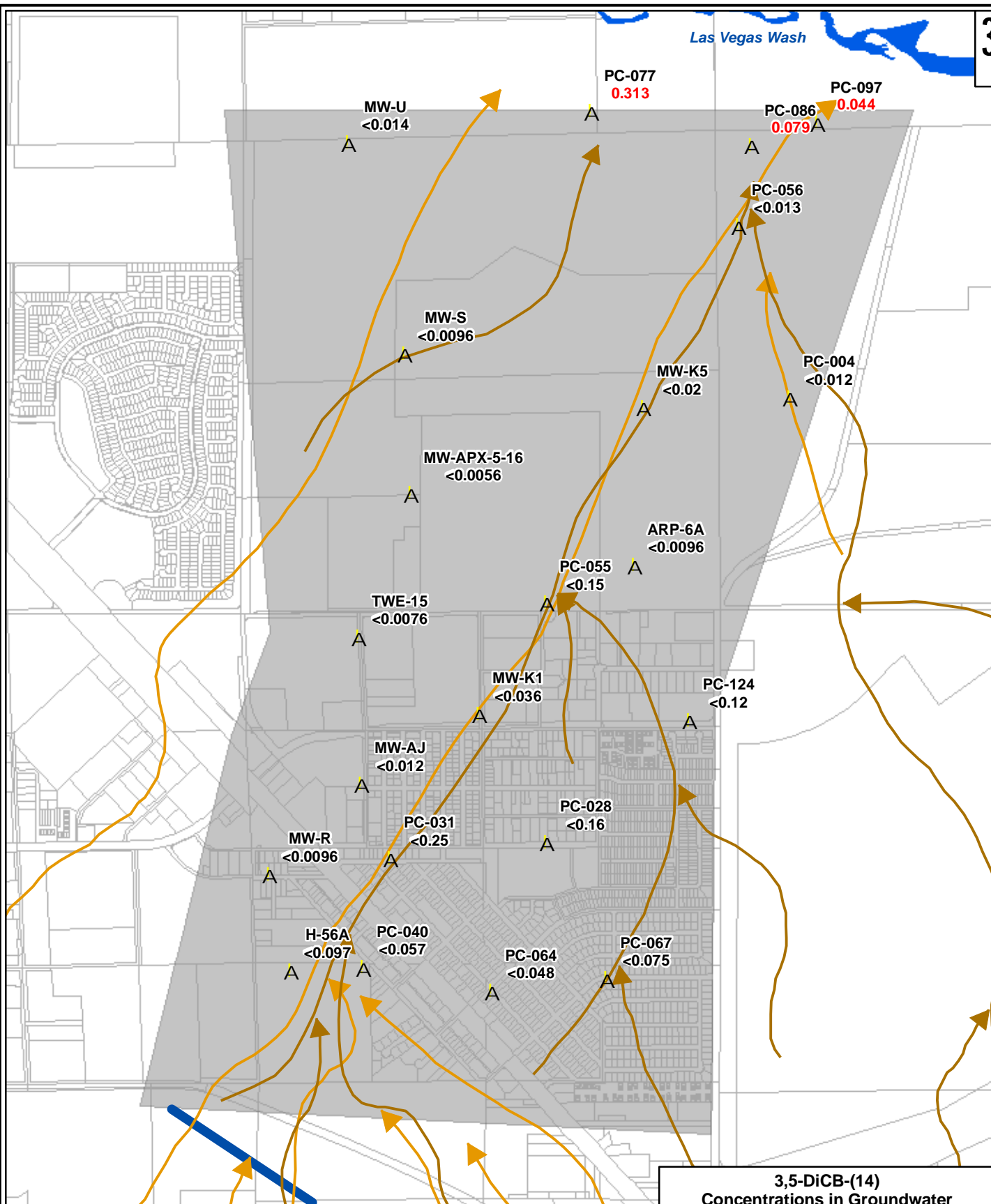
1,500 750 0 1,500 Feet

Geosyntec consultants Huntington Beach, CA	HW0934B	Figure <b>4-54</b>
	Revision: 01	
	30-Mar-2007	

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Las Vegas Wash



**Legend**

**0.079**

**A** Downgradient Study Area Monitor Well with Chemical Concentration

Paleochannel (BRC Interpretation)

Paleochannel (Tronox Interpretation)

Groundwater Treatment System (GWTS)

Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

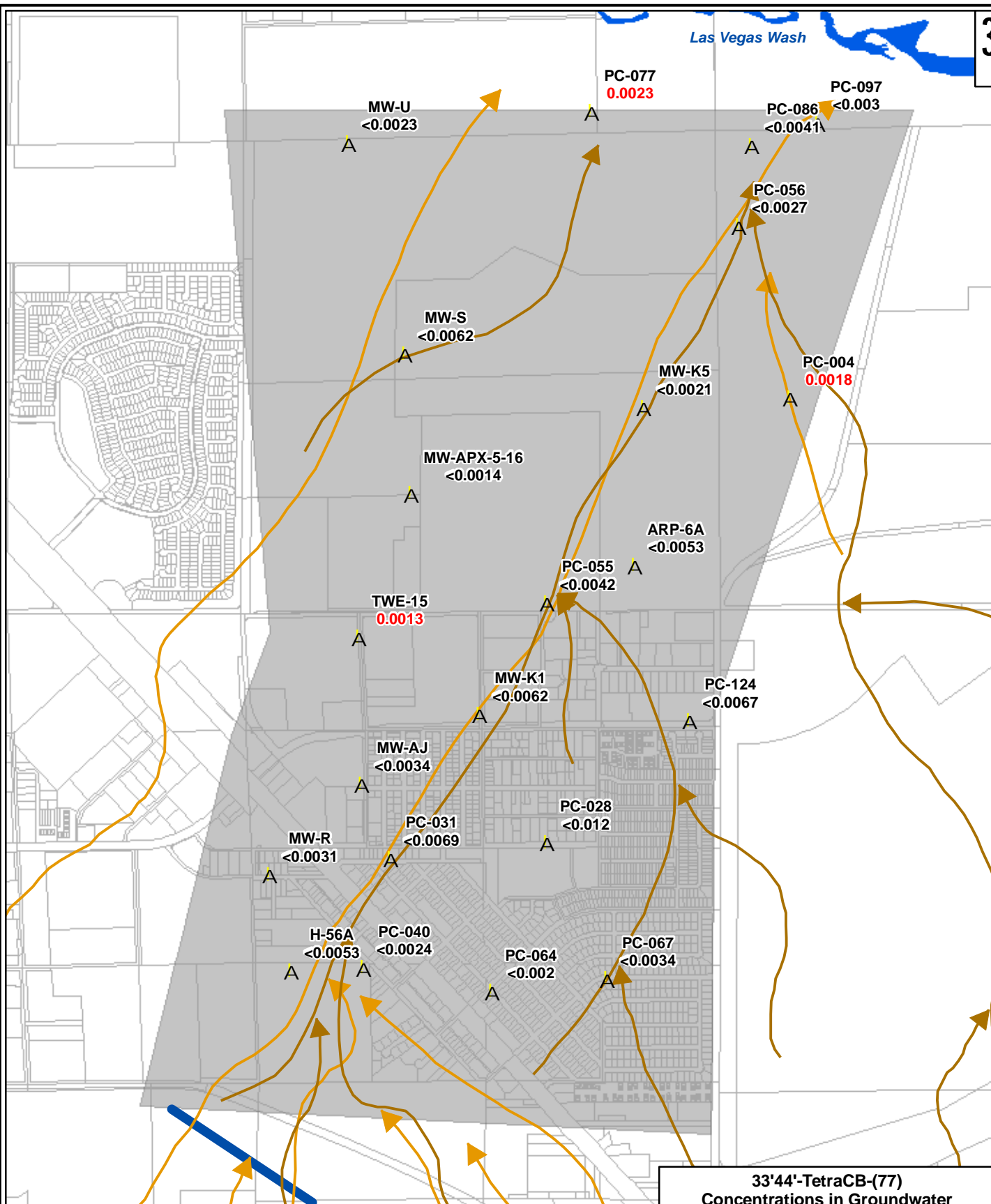
**3,5-DiCB(14)**  
**Concentrations in Groundwater**  
**Downgradient Study Area Investigation**  
**July 2006**  
 Henderson, Nevada

1,500 750 0 1,500 Feet

Geosyntec consultants Huntington Beach, CA	HW0934B	Figure <b>4-55</b>
	Revision: 01	
	30-Mar-2007	

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Las Vegas Wash

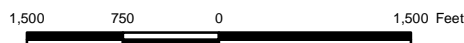


**Legend**

- 0.0013
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Orange Arrow Paleochannel (BRC Interpretation)
- Yellow Arrow Paleochannel (Tronox Interpretation)
- Blue Line Groundwater Treatment System (GWTS)
- Grey Shaded Area Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**33'44'-TetraCB-(77)**  
**Concentrations in Groundwater**  
**Downgradient Study Area Investigation**  
**July 2006**  
 Henderson, Nevada



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 consultants

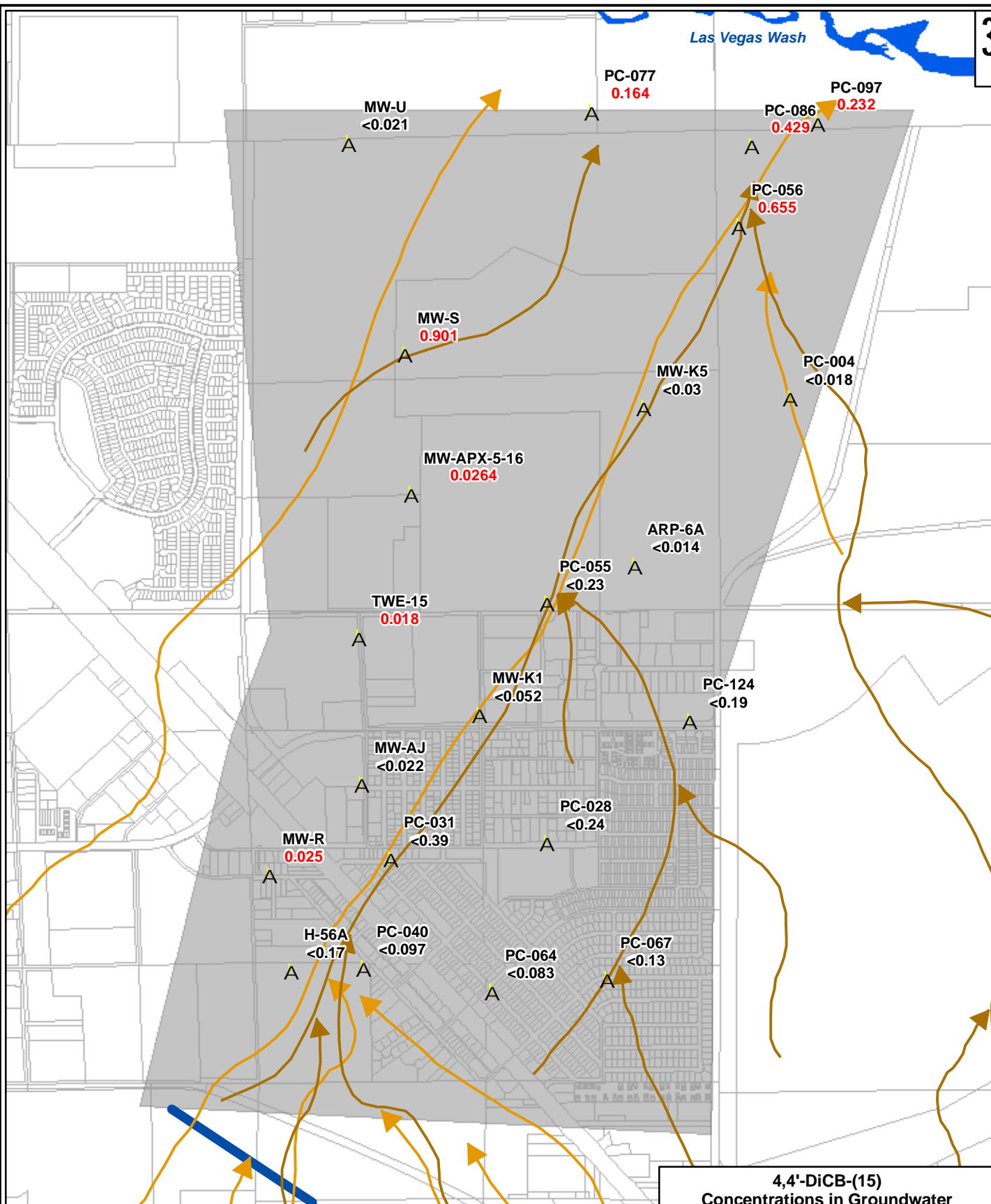
HW0934B  
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Huntington Beach, CA

30-Mar-2007

Figure  
**4-56**

Las Vegas Wash

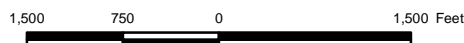


**Legend**

- 0.025
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTS)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**4,4'-DiCB-(15)  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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 consultants

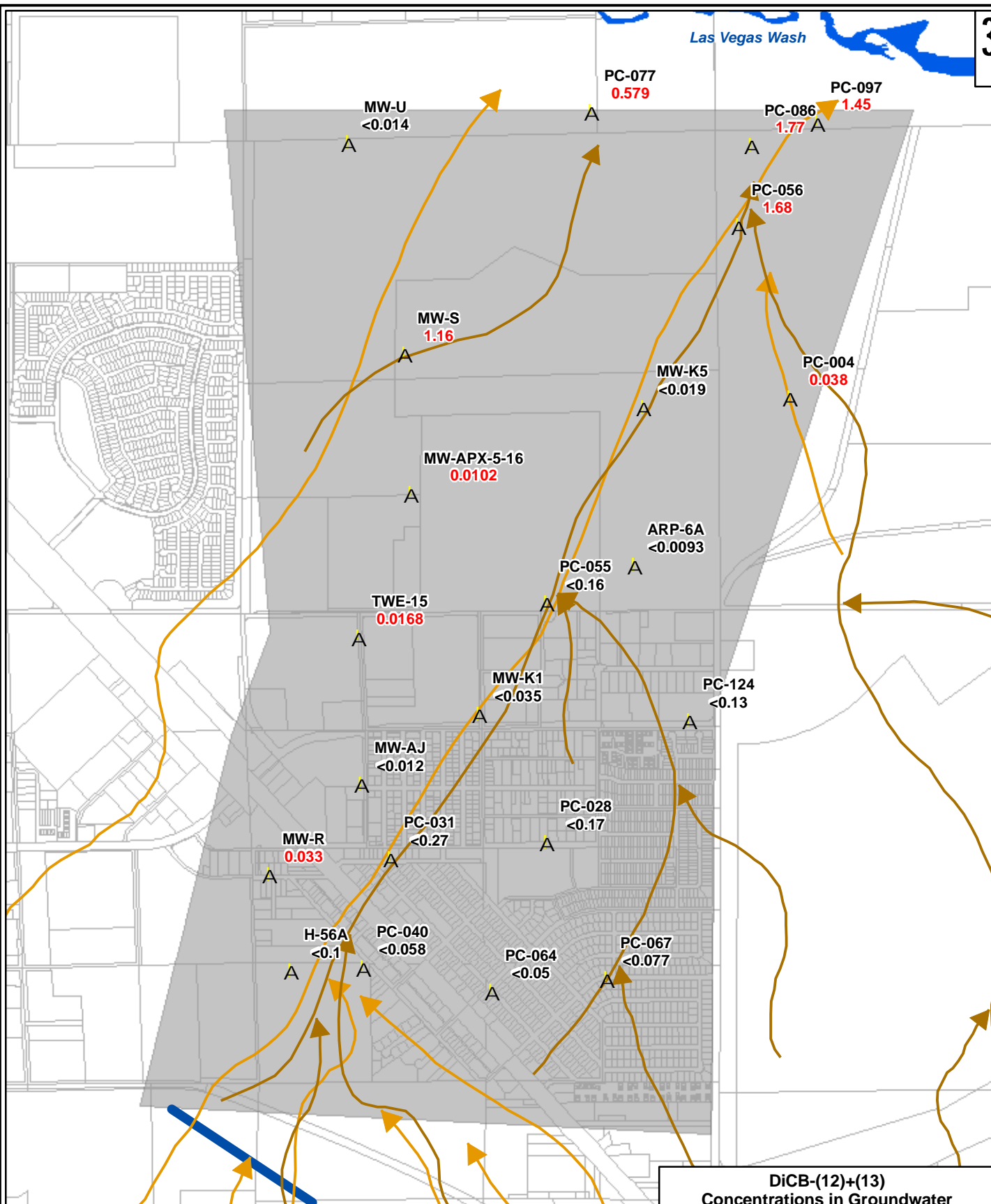
HW0934B  
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Huntington Beach, CA

30-Mar-2007

Figure  
**4-57**

Las Vegas Wash

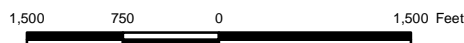


**Legend**

- 0.033
- A Downgradient Study Area Monitor Well with Chemical Concentration
- ▶ Paleochannel (BRC Interpretation)
- ▶ Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in nanograms per liter (ng/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**DiCB-(12)+(13)  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

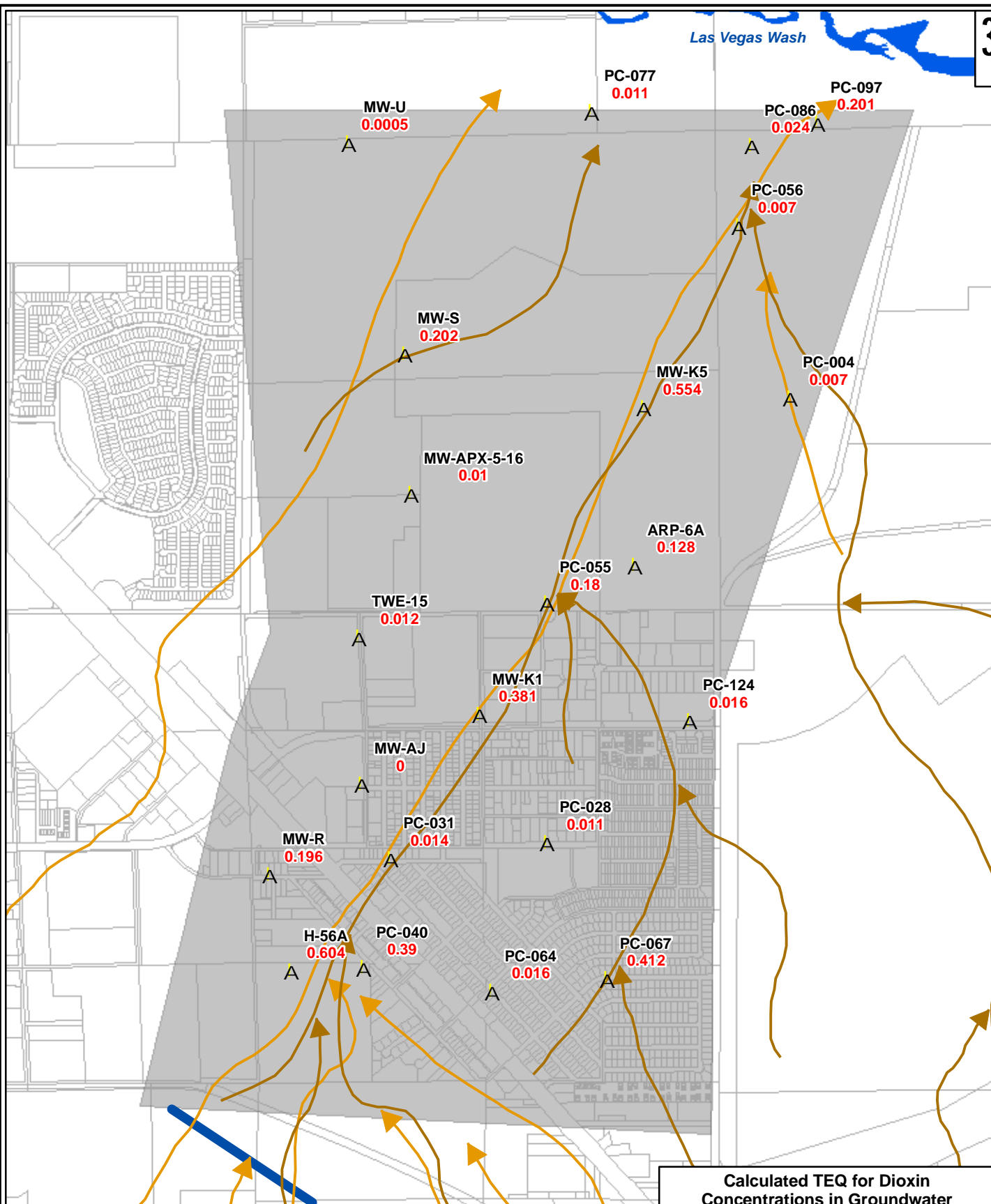


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Figure  
**4-58**

Las Vegas Wash

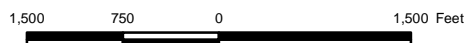


**Legend**

- 0.604
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in picograms per liter (pg/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Calculated TEQ for Dioxin  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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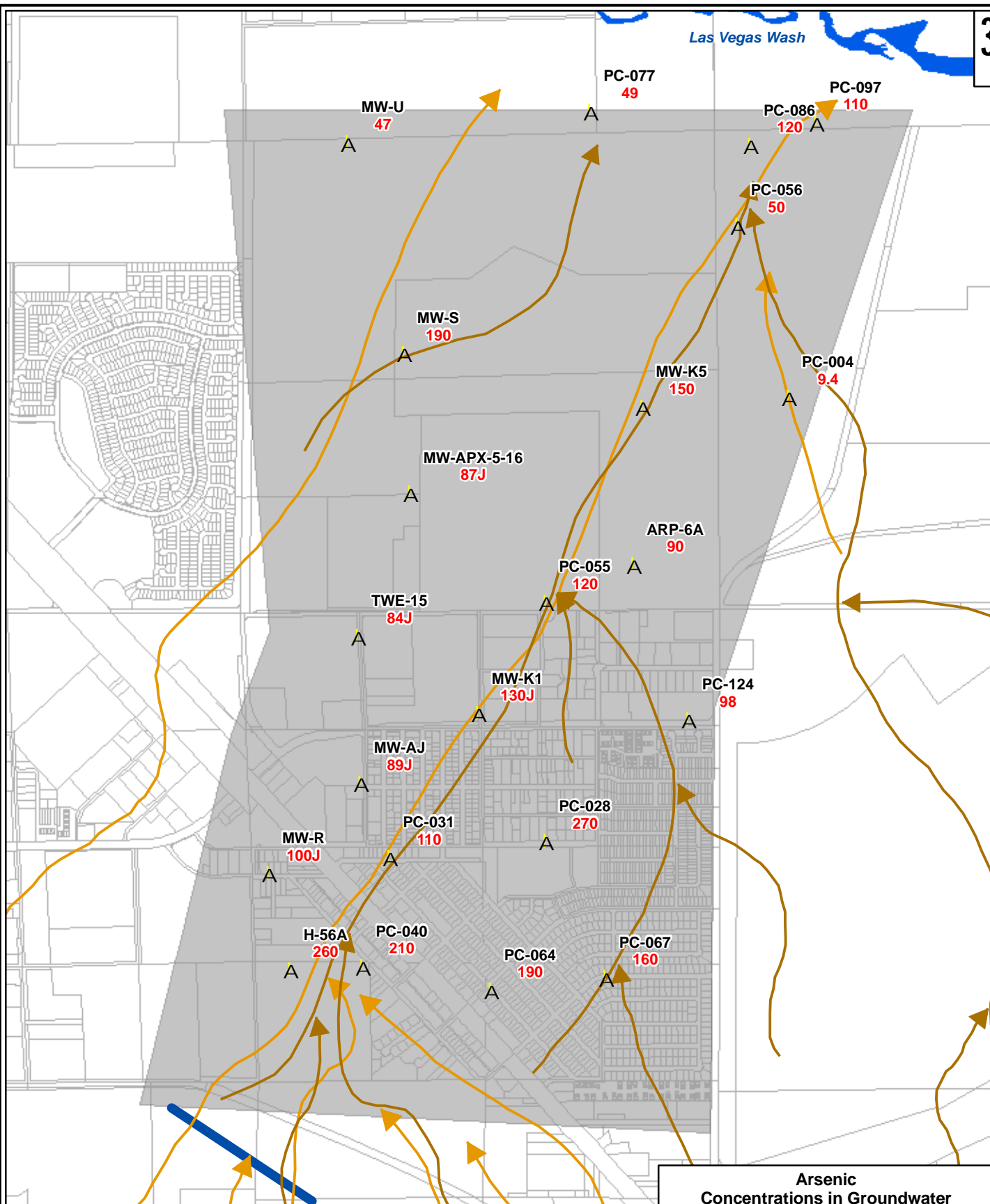
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Figure  
**4-59**



Las Vegas Wash



**Legend**

- 260  
A Downgradient Study Area Monitor Well with Chemical Concentration
- ▶ Paleochannel (BRC Interpretation)
- ▶ Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

**Arsenic  
Concentrations in Groundwater  
Downgradient Study Area Investigation  
July 2006**  
Henderson, Nevada

1,500 750 0 1,500 Feet

**Geosyntec**  
consultants

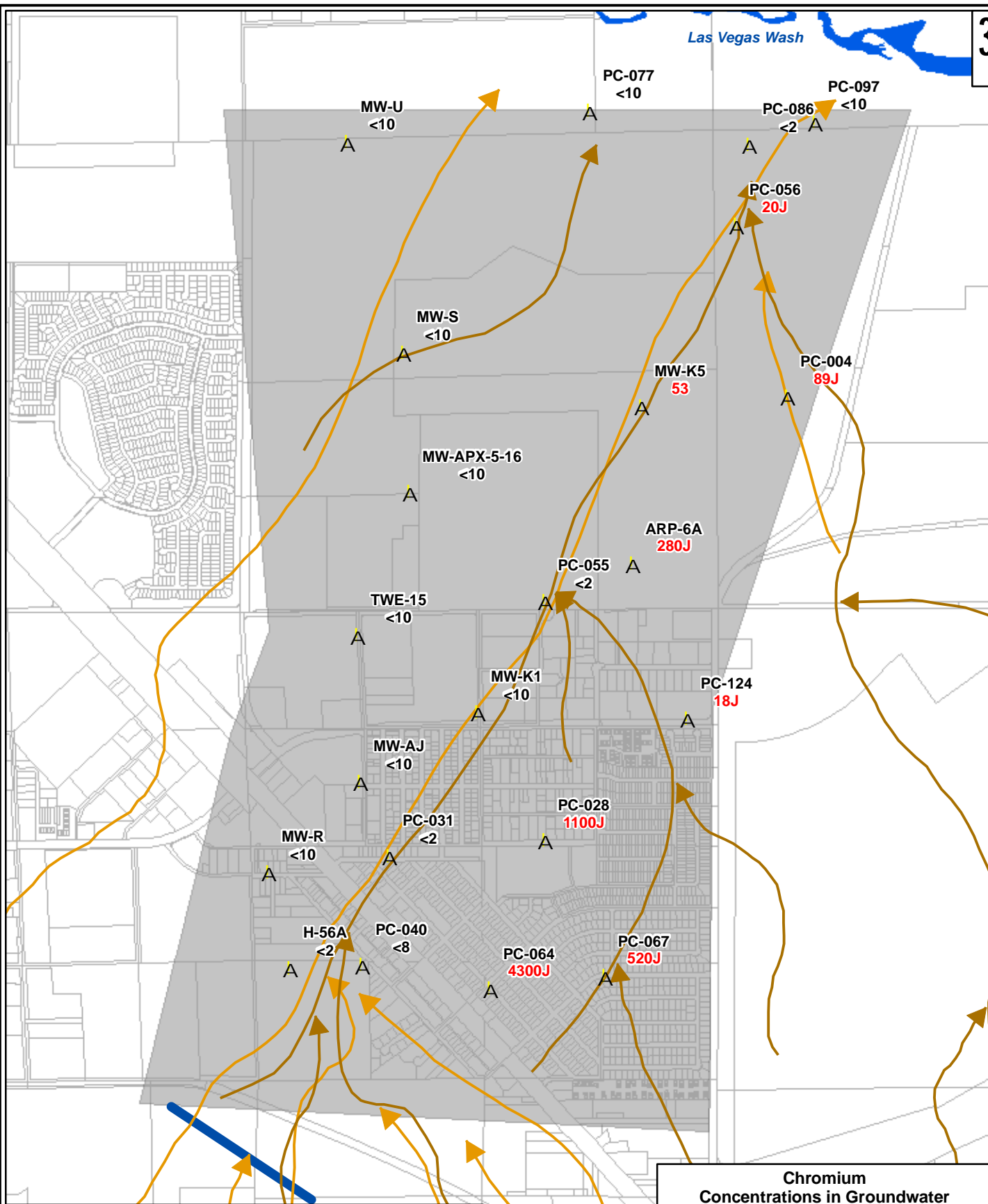
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30-Mar-2007

Figure  
**4-60**

Las Vegas Wash



**Legend**

- 53 A Downgradient Study Area Monitor Well with Chemical Concentration
- ▶ Paleochannel (BRC Interpretation)
- ▶ Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Chromium  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

1,500 750 0 1,500 Feet

**Geosyntec**  
 consultants

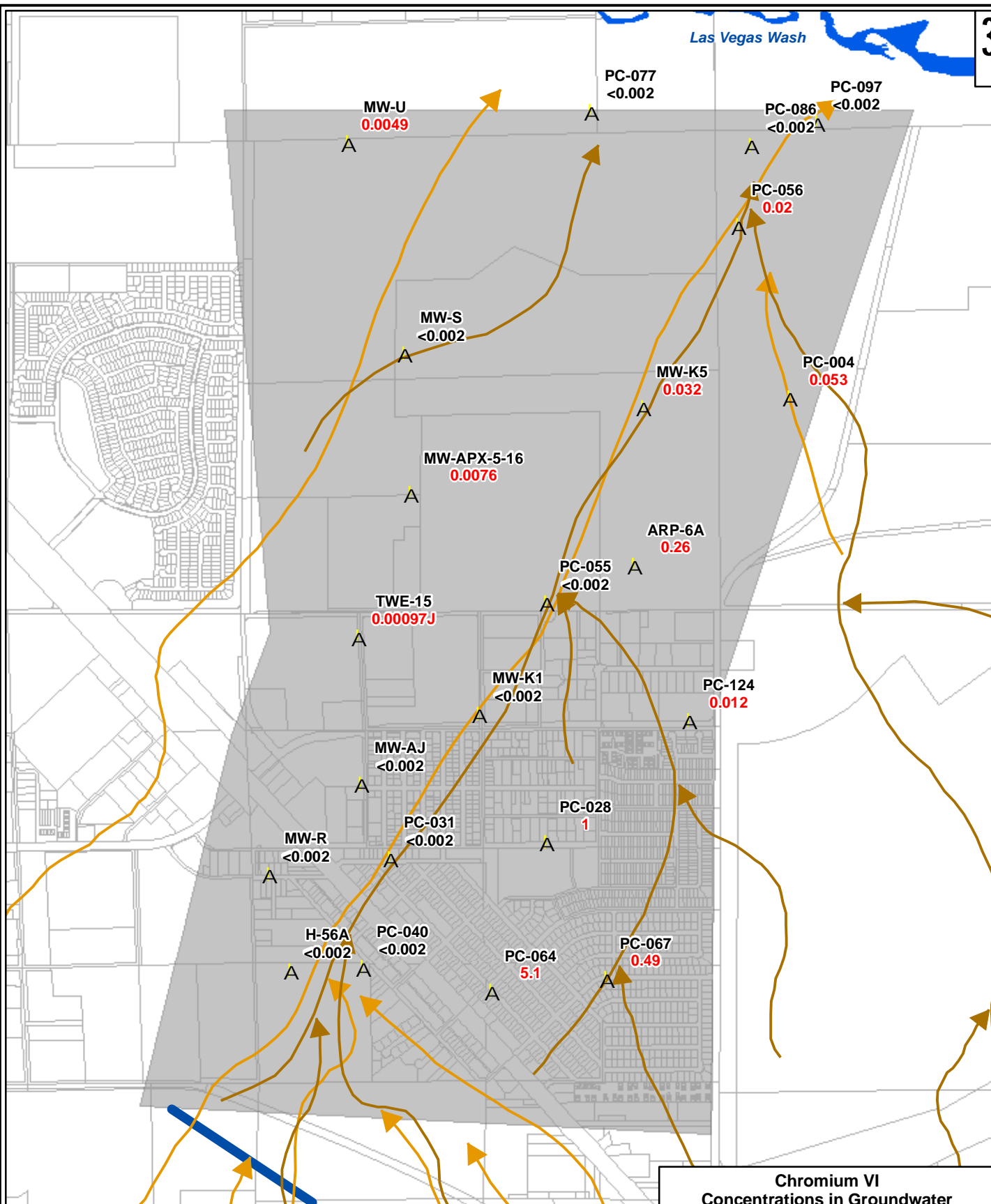
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Huntington Beach, CA

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Figure  
**4-61**

Las Vegas Wash



**Legend**

5.1

A Downgradient Study Area Monitor Well with Chemical Concentration

Yellow Arrow Paleochannel (BRC Interpretation)

Orange Arrow Paleochannel (Tronox Interpretation)

Blue Line Groundwater Treatment System (GWTS)

Grey Area Downgradient Study Area

Note: Concentrations in milligrams per liter (mg/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Chromium VI**  
**Concentrations in Groundwater**  
**Downgradient Study Area Investigation**  
**July 2006**  
 Henderson, Nevada

1,500 750 0 1,500 Feet

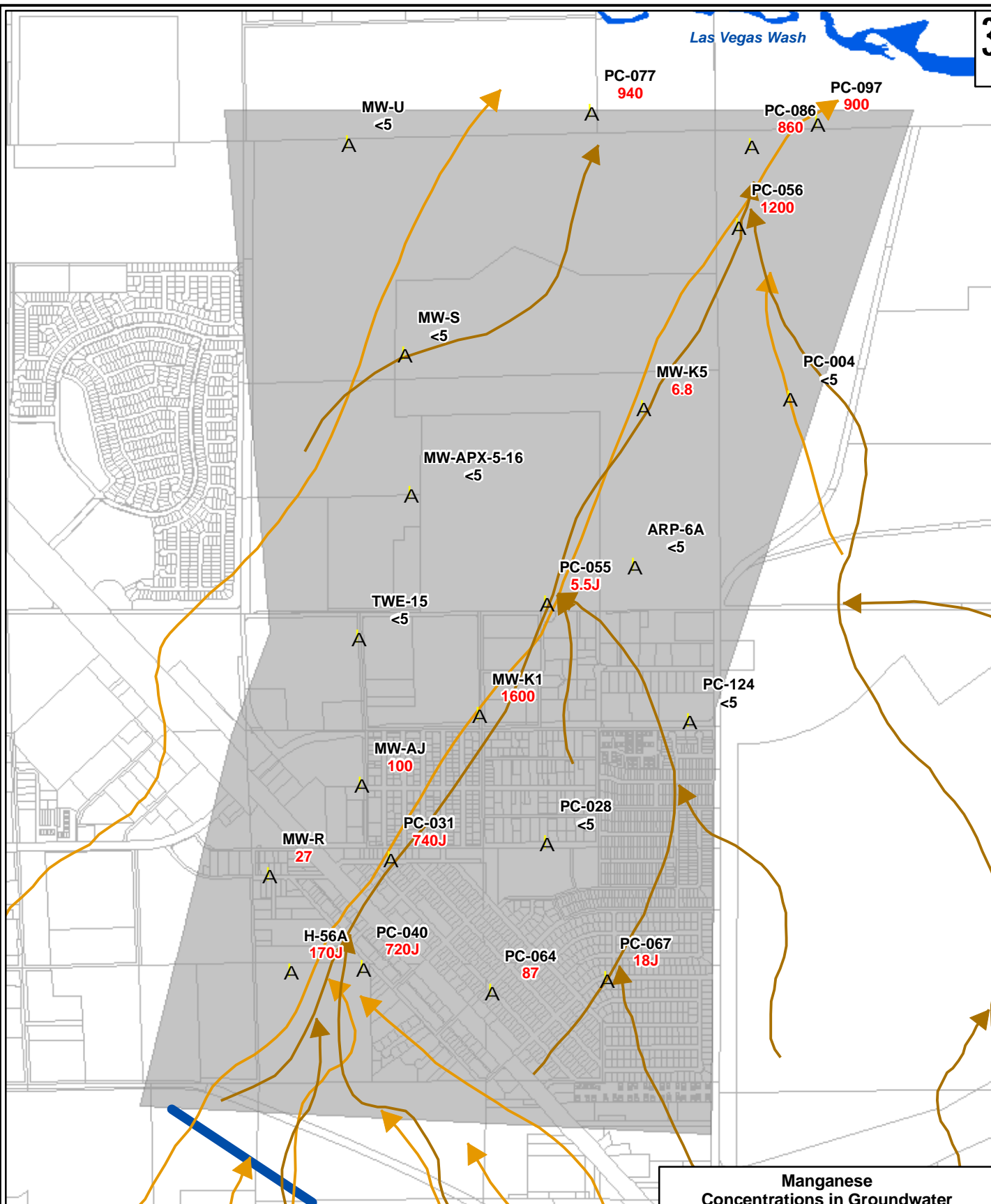
Geosyntec consultants  
 Huntington Beach, CA

HW0934B  
 Revision: 01  
 30-Mar-2007

Figure  
**4-62**

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Las Vegas Wash



**Legend**

- 87  
A Downgradient Study Area Monitor Well with Chemical Concentration
- ▶ Paleochannel (BRC Interpretation)
- ▶ Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Manganese  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**  
 Henderson, Nevada

1,500 750 0 1,500 Feet

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 consultants

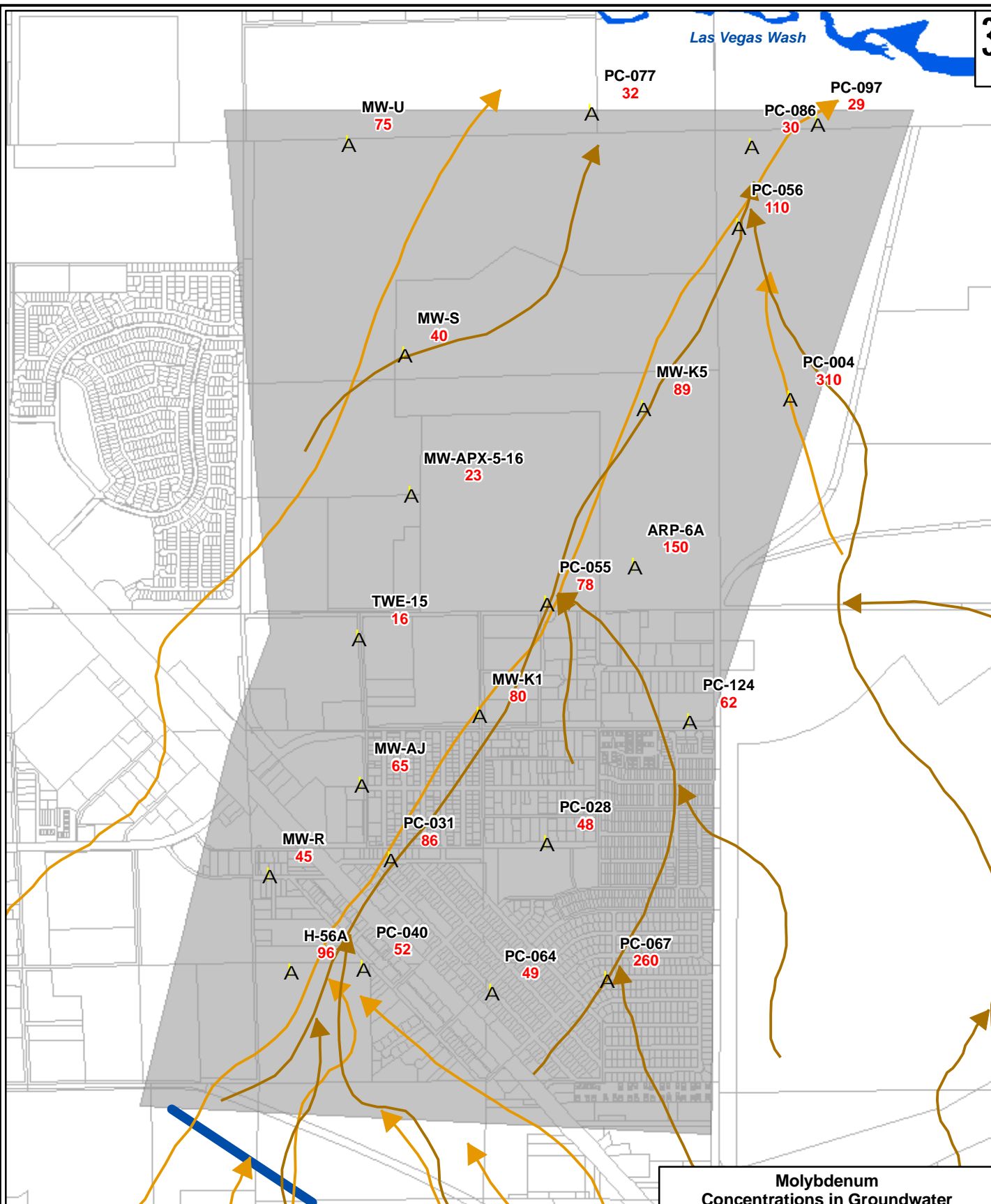
HW0934B  
 Revision: 01

Huntington Beach, CA

30-Mar-2007

Figure  
**4-63**

Las Vegas Wash

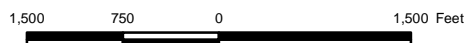


**Legend**

- 96  
A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Molybdenum  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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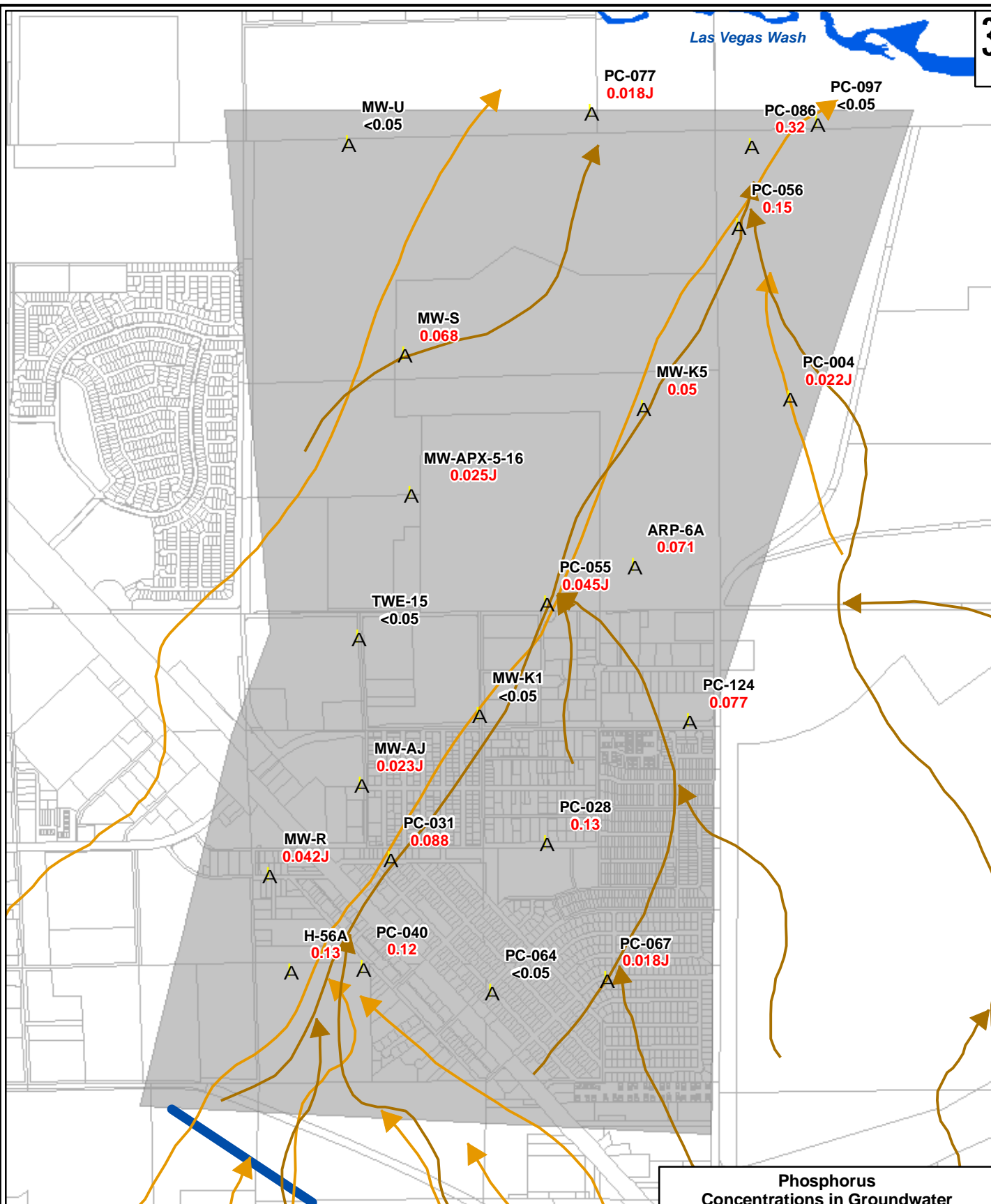
Huntington Beach, CA

30-Mar-2007

Figure  
**4-64**



Las Vegas Wash



**Legend**

- 0.13  
A Downgradient Study Area Monitor Well with Chemical Concentration
- ▶ Paleochannel (BRC Interpretation)
- ▶ Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in milligrams per liter (mg/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

**Phosphorus  
Concentrations in Groundwater  
Downgradient Study Area Investigation  
July 2006**  
Henderson, Nevada

1,500 750 0 1,500 Feet

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consultants

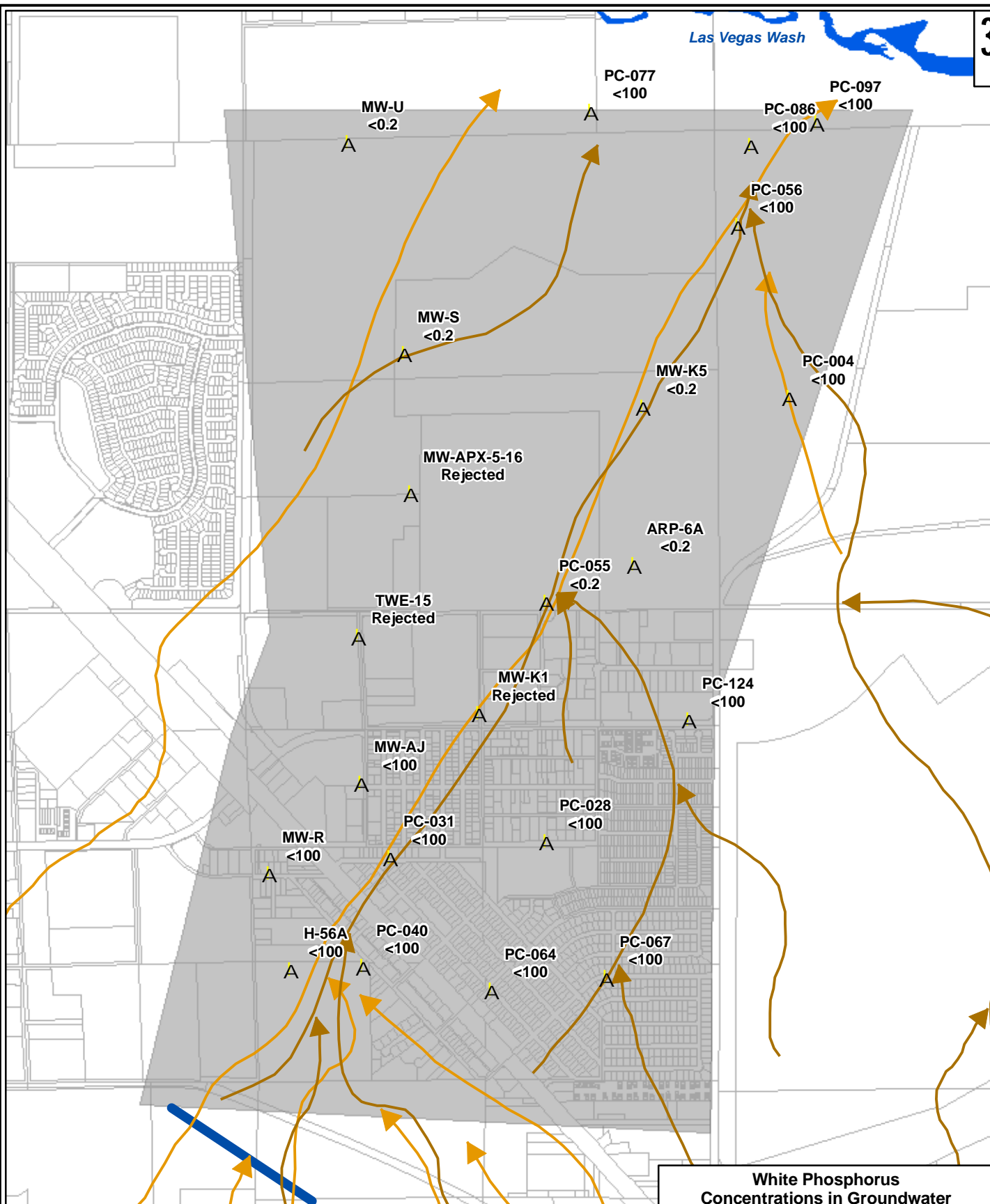
HW0934B  
Revision: 01

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30-Mar-2007

Figure  
**4-65**

Las Vegas Wash



**Legend**

- <100**
- A** Downgradient Study Area Monitor Well with Chemical Concentration
- Orange Arrow** Paleochannel (BRC Interpretation)
- Yellow Arrow** Paleochannel (Tronox Interpretation)
- Blue Line** Groundwater Treatment System (GWTs)
- Grey Area** Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**White Phosphorus  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**

Henderson, Nevada

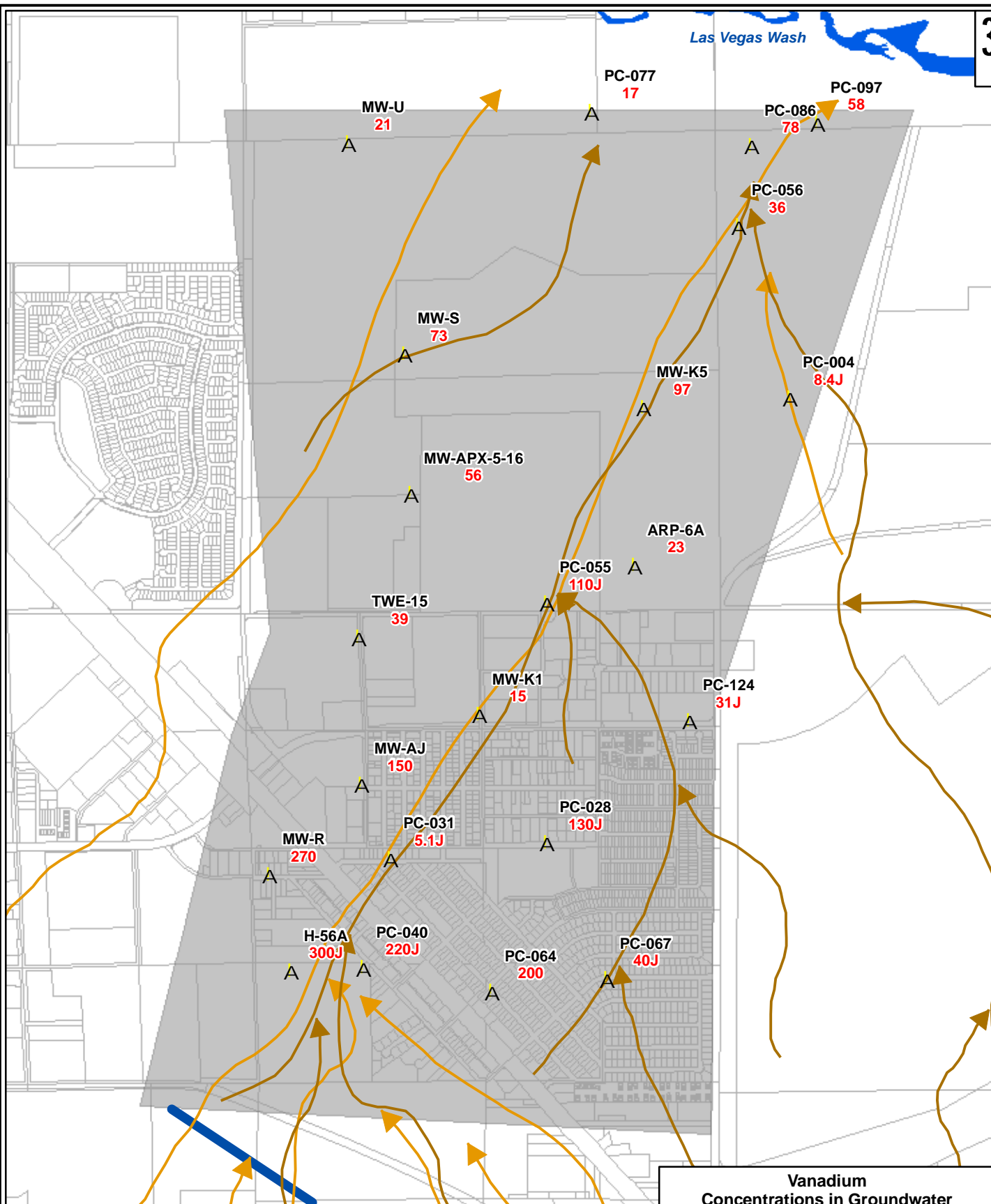
1,500 750 0 1,500 Feet

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 30-Mar-2007

**Figure  
 4-66**

Las Vegas Wash

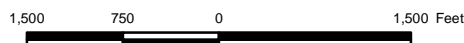


**Legend**

- 200
- A Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in micrograms per liter (ug/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Vanadium  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**



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 consultants

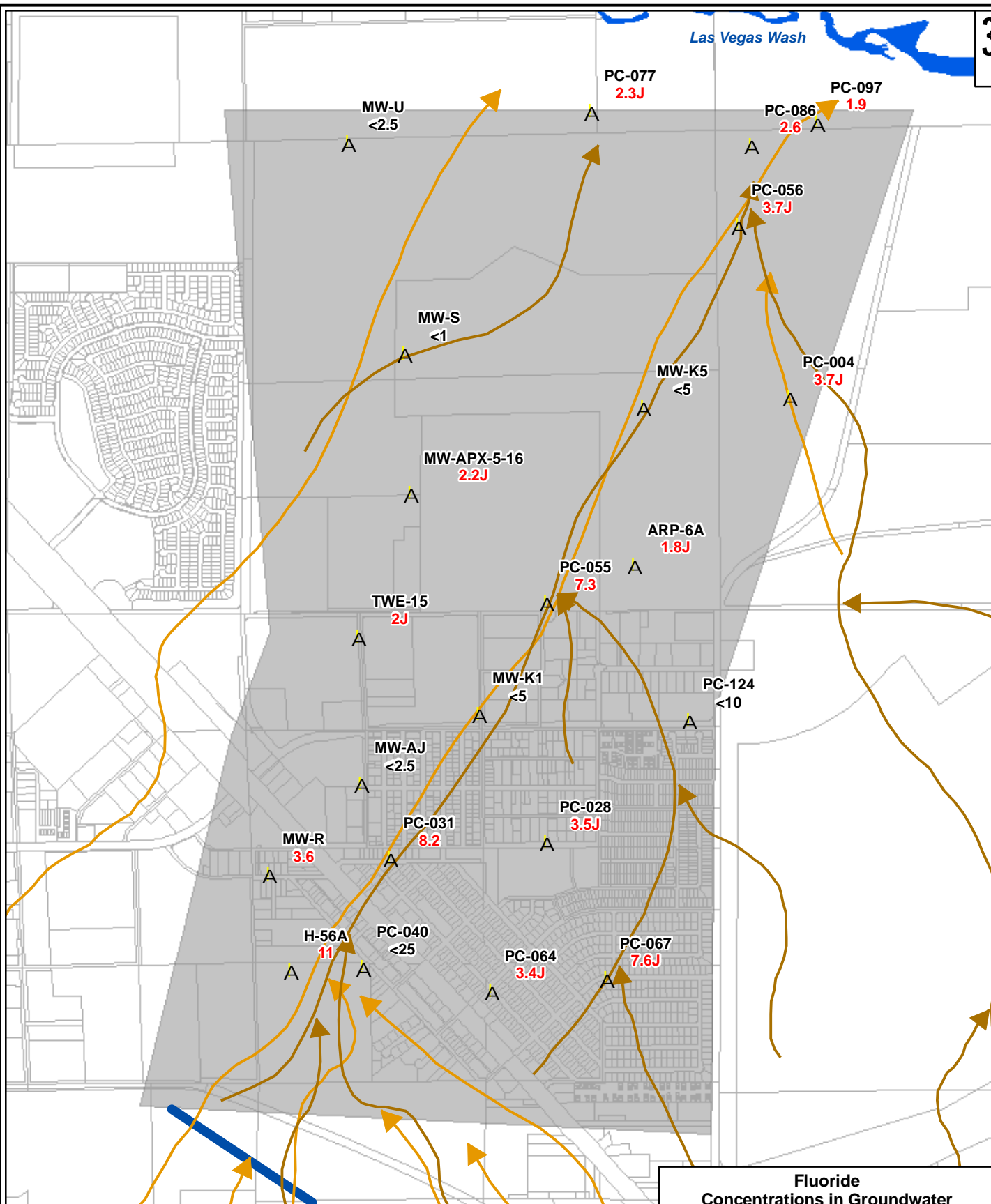
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Figure  
**4-67**

Las Vegas Wash



**Legend**

- 11**  
A Downgradient Study Area Monitor Well with Chemical Concentration
- ➔ Paleochannel (BRC Interpretation)
- ➔ Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in milligrams per liter (mg/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Fluoride  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006  
 Henderson, Nevada**

1,500 750 0 1,500 Feet

**Geosyntec**  
 consultants

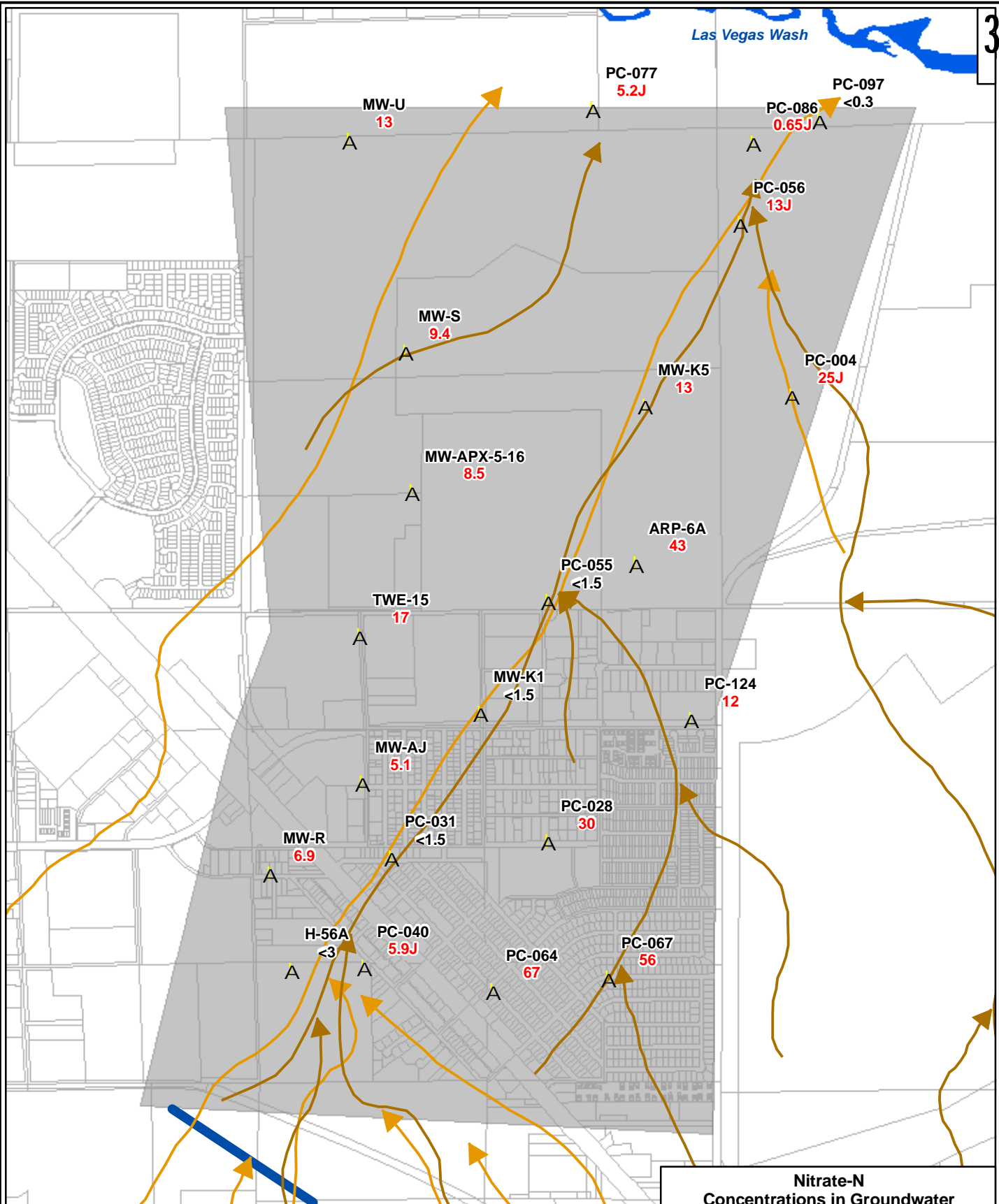
HW0934B  
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Huntington Beach, CA

30-Mar-2007

Figure  
**4-68**

Las Vegas Wash



**Legend**

**67**  
A Downgradient Study Area Monitor Well with Chemical Concentration

➤ Paleochannel (BRC Interpretation)

➤ Paleochannel (Tronox Interpretation)

— Groundwater Treatment System (GWTs)

■ Downgradient Study Area

Note: Concentrations in milligrams per liter (mg/L)  
J-value denotes estimated concentration below the reporting limit of the analytical method  
< chemical was non-detectable at the limit of quantification shown

**Nitrate-N**  
**Concentrations in Groundwater**  
**Downgradient Study Area Investigation**  
**July 2006**  
Henderson, Nevada

1,500 750 0 1,500 Feet

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Huntington Beach, CA

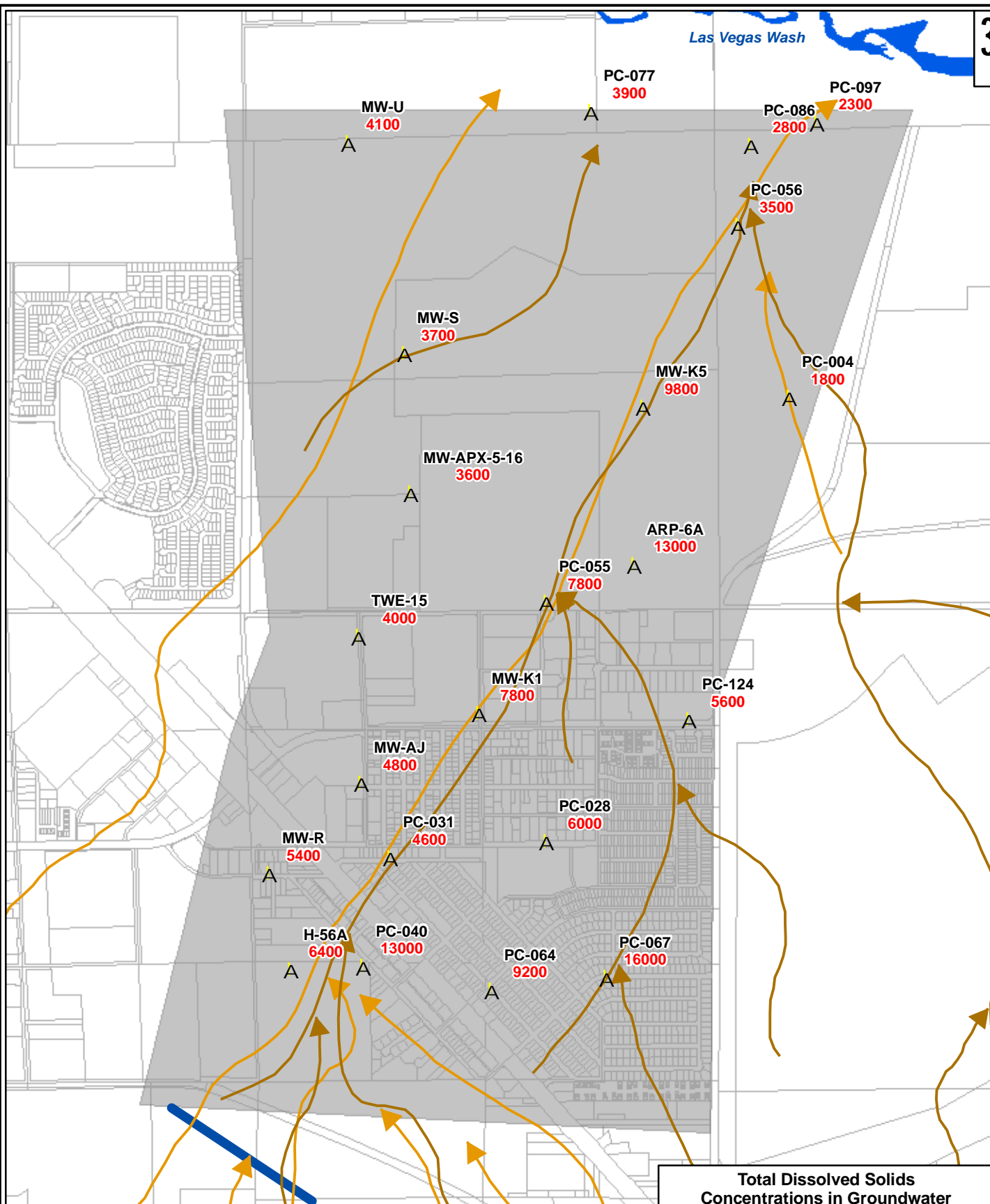
HW0934B  
Revision: 01  
30-Mar-2007

Figure  
**4-69**

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Las Vegas Wash

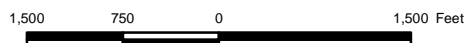


**Legend**

- 6400
- A** Downgradient Study Area Monitor Well with Chemical Concentration
- Paleochannel (BRC Interpretation)
- Paleochannel (Tronox Interpretation)
- Groundwater Treatment System (GWTs)
- Downgradient Study Area

Note: Concentrations in milligrams per liter (mg/L)  
 J-value denotes estimated concentration below the reporting limit of the analytical method  
 < chemical was non-detectable at the limit of quantification shown

**Total Dissolved Solids  
 Concentrations in Groundwater  
 Downgradient Study Area Investigation  
 July 2006**  
 Henderson, Nevada



**Geosyntec**  
 consultants

HW0934B

Revision: 01

Huntington Beach, CA

30-Mar-2007

Figure  
**4-70**